

PoDI / NHS

FHWA PROJECT OF OMISION INTEREST?

☒ NO ☐ YES

NATIONAL HIGHWAY SYSTEM?

☒ NO ☐ YES

DEPARTMENT OF TRANSPORTATION

STATE OF COLORADO

FINAL PLANS

05/18/16

HIGHWAY CONSTRUCTION BID PLANS OF PROPOSED

FEDERAL AID PROJECT NO. ES4 M415-011

US 85 ACCESS CONTROL AT 37TH ST

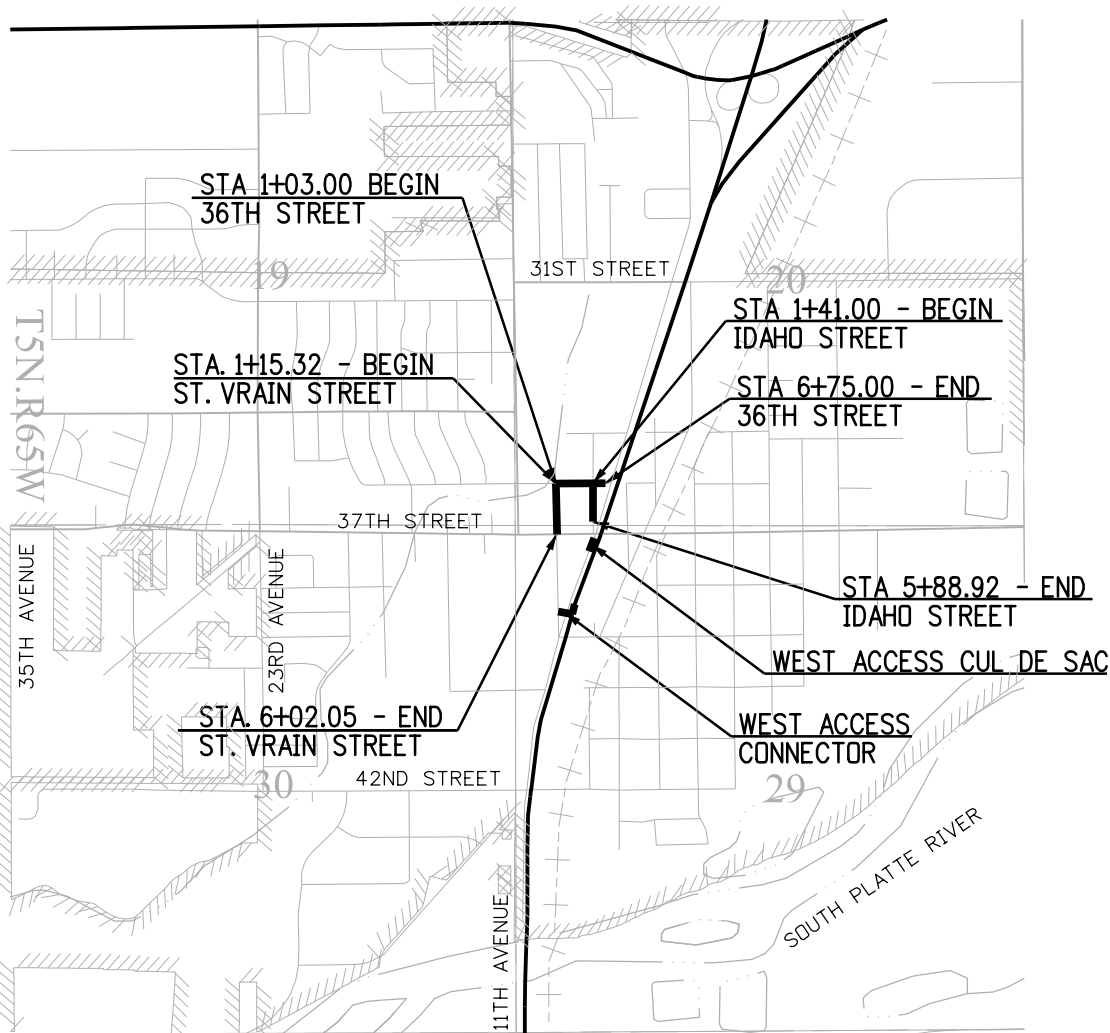
CITY OF EVANS, WELD COUNTY

CONSTRUCTION PROJECT CODE NO. 17516

TABULATION OF LENGTH & DESIGN DATA

STATION	FEET
	ROADWAY
APPROACH TO PROJECT	
36TH STREET STA. 1+03.00 TO 6+75.00	572.00
ST. VRAIN STREET STA. 1+15.32 TO 6+02.05	486.73
IDAHO STREET STA. 1+41.00 TO 5+88.92	447.92
WEST ACCESS CUL DE SAC STA. 81+58.19 TO 83+75	216.81
WEST ACCESS CONNECTOR STA. 1+13.90 TO 2+53.54	139.64
TOTAL	1863.1
SUMMARY OF PROJECT LENGTH	FEET
MAJOR STRUCTURE	
PROJECT GROSS LENGTH	1863.1

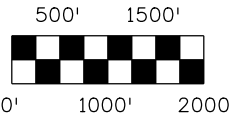
DESIGN DATA	LOCAL ROADS
MAXIMUM RADIUS OF CURVE	N/A
MAXIMUM GRADE	4.95%
MINIMUM S.S.D. HORIZONTAL	307 FT
MINIMUM S.S.D. VERTICAL	307 FT
MAXIMUM DESIGN SPEED	25 MPH
CLEAR ZONE DISTANCE	7-10 FT.



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PROJECT LOCATION MAP



Print Date: 5/18/2016

Drawing File Name: StVrain_GEN_Title01.dgn

Horiz. Scale: 1:1 Vert. Scale: As Noted

 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202
Phone: 303-764-1520 FAX: 303-860-7139



Sheet Revisions

Date:	Comments	Init.

US 85 Access Control

at 37th Street



As Constructed

No Revisions:

Revised:

Void:

Contract Information

Contractor:

Resident Engineer:

Project Engineer:

PROJECT STARTED: / / ACCEPTED: / /

Comments:

Project No./Code

STM M415-014

18404

Sheet Number **1**

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PLAN NUMBER	NEW OR REVISED	M STANDARD TITLE	PAGE NUMBER
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M-206-2		EXCAVATION AND BACKFILL FOR BRIDGES (2 SHEETS).....	17-18
M-208-1	<input checked="" type="checkbox"/>	TEMPORARY EROSION CONTROL (11 SHEETS) (REVISED ON MARCH 29, 2016).....	19-30
M-210-1		MAILBOX SUPPORTS (2 SHEETS).....	31-32
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M-216-1	<input type="checkbox"/>	SOIL RETENTION COVERING (2 SHEETS) (NEW ON JULY 16, 2015).....	
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M-603-2	<input checked="" type="checkbox"/>	REINFORCED CONCRETE PIPE . (REVISED ON OCTOBER 02, 2014).....	54
M-603-3		PRECAST CONCRETE BOX CULVERT.....	55
M-603-4	<input type="checkbox"/>	CORRUGATED POLYETHYLENE PIPE (AASHTO M294) (REVISED ON OCT. 02, 2014).....	56
M-603-5	<input type="checkbox"/>	POLYVINYL CHLORIDE (PVC) PIPE (AASHTO M304) (REVISED ON OCT. 02, 2014).....	57
M-603-6	<input type="checkbox"/>	STEEL REINFORCED POLYETHYLENE RIBBED PIPE (AASHTO MP 20) (NEW ON APRIL 30, 2015).....	
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M-606-13	<input type="checkbox"/>	GUARDRAIL TYPE 7 F-SHAPE BARRIER (4 SHEETS).....	93-96
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M-607-4	<input type="checkbox"/>	DEER FENCE, GATES, AND GAME RAMPS (5 SHEETS).....	107-109
M-607-10		PICKET SNOW FENCE.....	110
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M-608-1	<input checked="" type="checkbox"/>	CURB RAMPS (7 SHEETS) (REVISED ON JUNE 16, 2014).....	120-125
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COLORADO
DEPARTMENT OF TRANSPORTATION

M&S STANDARDS PLANS LIST

July 04, 2012

Revised on March 29, 2016

ALL OF THE M&S STANDARD PLANS, AS SUPPLEMENTED AND REVISED, APPLY TO THIS PROJECT WHEN USED BY DESIGNATED PAY ITEM OR SUBSIDIARY ITEM.

NEW OR REVISED STANDARD PLAN SHEETS APPLICABLE TO THIS PROJECT, INDICATED BY A MARKED BOX ☒, WILL BE ATTACHED TO THE PLANS.

PLAN NUMBER	NEW OR REVISED	S STANDARD TITLE	PAGE NUMBER
S-612-1		DELINEATOR INSTALLATIONS (7 SHEETS).....	151-157
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S-614-4	<input type="checkbox"/>	CLASS III SIGNS (3 SHEETS) (REVISED ON DECEMBER 17, 2014).....	162-164
S-614-5		BREAK-AWAY SIGN SUPPORT DETAILS FOR GROUND SIGNS (2 SHEETS).....	165-166
S-614-6	<input type="checkbox"/>	CONCRETE FOOTINGS AND SIGN ISLANDS.....	167-168
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S-614-21		CONCRETE BARRIER SIGN POST INSTALLATIONS.....	182
S-614-22		TYPICAL MULTI-SIGN INSTALLATIONS.....	183
S-614-40	<input checked="" type="checkbox"/>	TYPICAL TRAFFIC SIGNAL INSTALLATION DETAILS (5 SHEETS) (REVISED ON APRIL 2, 2015).....	184-188
S-614-40A	<input checked="" type="checkbox"/>	ALTERNATIVE TRAFFIC SIGNAL INSTALLATION DETAILS (4 SHEETS) (REVISED ON APRIL 2, 2015).....	189-192
S-614-41	<input type="checkbox"/>	TEMPORARY SPAN WIRE SIGNALS (REVISED ON APRIL 2, 2015).....	193
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S-614-60	<input type="checkbox"/>	DYNAMIC SIGN MONOTUBE STRUCTURES (14 SHEETS).....	220-233
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S-630-4		STEEL SIGN SUPPORT (TEMPORARY) INSTALLATION DETAILS (2 SHEETS).....	261-262
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S-630-7		ROLLING ROADBLOCKS FOR TRAFFIC CONTROL (3 SHEETS).....	266-268

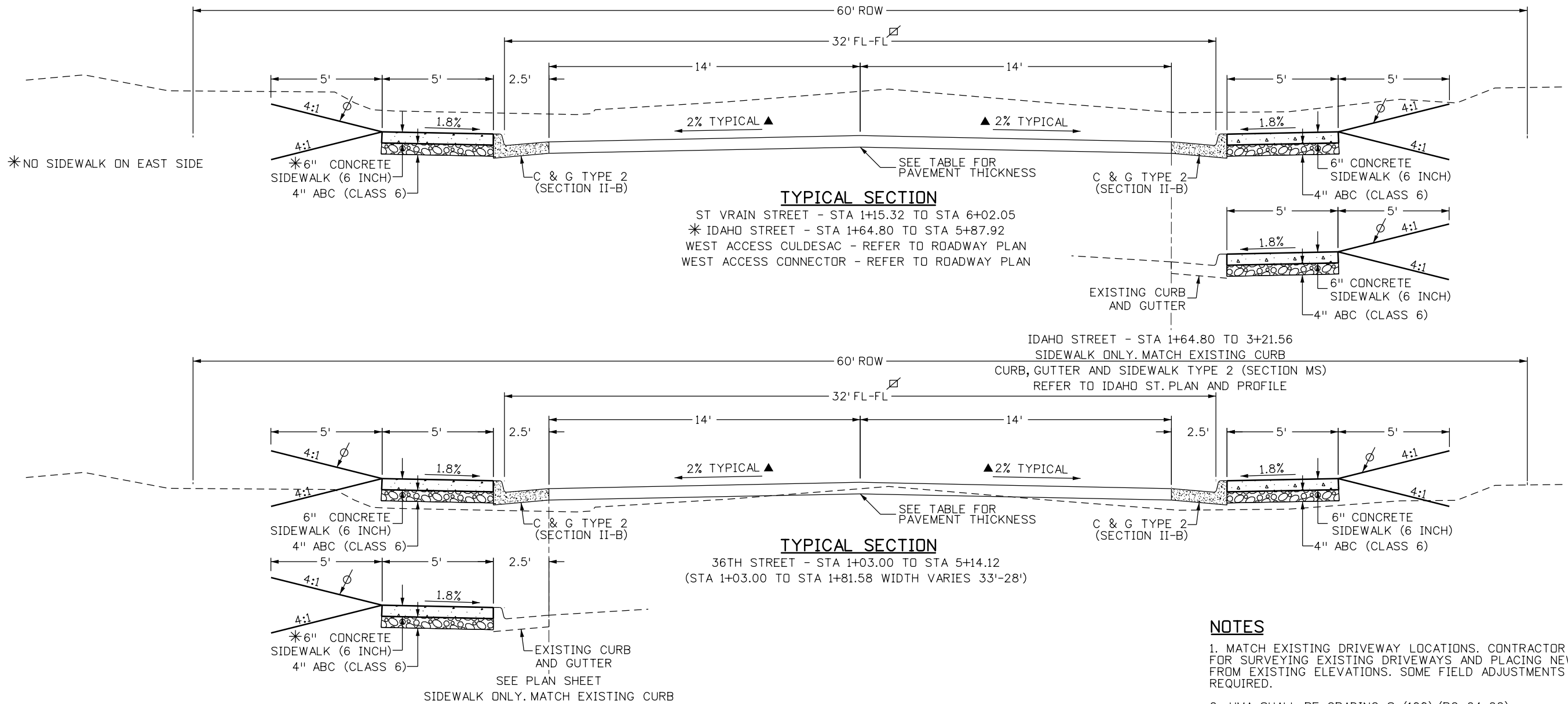


Sheet Revisions		
Date:	Comments	Init.



As Constructed	STANDARD PLANS LIST			Project No./Code
No Revisions:				STM M415-014
Revised:	Designer: M. FOLWELL	Structure Numbers		18404
Void:	Detailer: C. SAXE			
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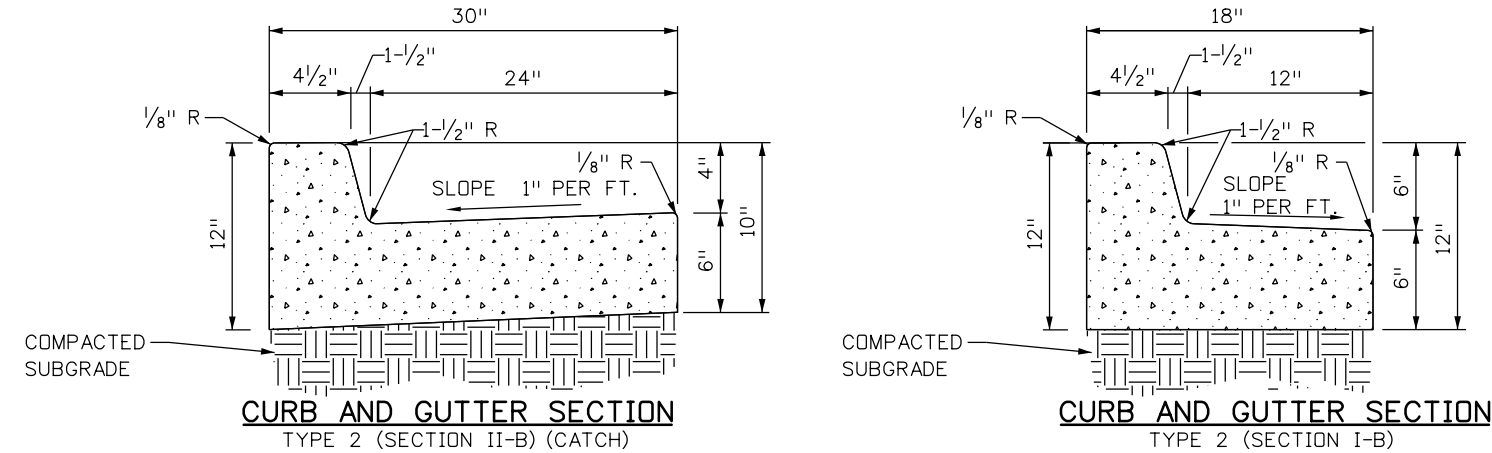
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NOTES

1. MATCH EXISTING DRIVEWAY LOCATIONS. CONTRACTOR IS RESPONSIBLE FOR SURVEYING EXISTING DRIVEWAYS AND PLACING NEW DRIVEWAYS FROM EXISTING ELEVATIONS. SOME FIELD ADJUSTMENTS MIGHT BE REQUIRED.
2. HMA SHALL BE GRADING S (100) (PG 64-22).
3. SAW CUT DEPTHS MAY VARY. PAID FOR AS 202-05026, SAWING ASPHALT MATERIAL (6 INCH).

GEOTECH RECOMMENDED PAVEMENT THICKNESS (Inches)			
TRAFFIC AREA	ASPHALT CONCRETE SURFACE	AGGREGATE BASE COURSE	TOTAL
ST. VRAIN STREET	4 1/2	9	13 1/2
36TH STREET	4 1/2	9	13 1/2
IDAHO STREET	3	4	7
W. ACCESS CULDESAC	3	4	7
W. ACCESS CONNECTOR	3	4	7
HWY 85 SLIP RAMP	6	6	12



LEGEND

- SEE PLANS FOR WIDTHS AND TRANSISTIONS
- MIN. 4\"/>

Print Date: 5/18/2016

File Name: StVrain_DES_TypSec01.dgn

Horiz. Scale: 1:5

Vert. Scale: As Noted

1670 BROADWAY, SUITE 3400

DENVER, COLORADO 80202

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Sheet Revisions			
Date:	Comments	Init.	

US 85 Access Control

at 37th Street

City of Evans, Colorado

CDOT Region 04

As Constructed		ROADWAY TYPICAL SECTION		Project No./Code
No Revisions:		Designer: J. WENGER		STM M415-014
Revised:		Detailer: M. HOFFMAN	Structure Numbers	18404
Void:		Sheet Subset: TYPICALS	Subset Sheets: 1 of 1	Sheet: 3

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PROJECT CONTROL NOTES

ALL VERTICAL AND HORIZONTAL DATUM INFORMATION SHALL BE OBTAINED USING THE EVANS GEODETIC SURVEY CONDUCTED BY ALBERS, DREXEL & POHLY, INC. JANUARY 9, 1998. A COPY OF FINAL COORDINATES, ELEVATIONS, AND MONUMENT DESCRIPTIONS CAN BE OBTAINED BY CONTACTING THE CITY OF EVANS AT (970) 475-1113.

ALL PROPERTY PINS, INTERSECTION MONUMENTS, AND SECTION CORNERS DISTURBED DURING CONSTRUCTION MUST BE REFERENCED AND REPLACED UNDER THE SUPERVISION OF A LICENSED SURVEYOR.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING LOST OR DAMAGED PROPERTY PINS, INTERSECTION MONUMENTS, AND SECTION CORNERS DUE TO CONSTRUCTION ACTIVITY.

ALL INTERSECTION MONUMENTS AND SECTION CORNERS THAT ARE LOCATED WITHIN A ROADWAY SHALL HAVE A MONUMENT BOX PLACED OVER THE MONUMENT AND SHALL HAVE A ONE FOOT CONCRETE COLLAR PLACED AROUND THE BOX FOR PROTECTION AND EASY ACCESS.

GENERAL CONSTRUCTION NOTES

ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED CONSTRUCTION DOCUMENTS ON SITE AT ALL TIMES.

THE GENERAL CONTRACTOR SHALL CALL THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC) AT 1-(800)-922-1987 TO REQUEST LOCATES OF ALL UNDERGROUND UTILITIES AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATIONS AND PROTECTION OF ALL EXISTING UTILITIES SHOWN, ALL EXISTING UTILITIES NOT SHOWN, AND ALL PROPOSED UTILITES ON THESE PLANS.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ADJACENT IMPROVEMENTS FROM DAMAGE AND EROSION. ANY ADJACENT IMPROVEMENT DAMAGED DURING CONSTRUCTION SHALL, AT A MINIMUM, BE RESTORED TO A STATE EQUAL TO ITS PRECONSTRUCTION STATE.

THE GENERAL CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS TO COMPLETE WORK, AND SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

IDENTIFYING THE NEED FOR A PERMIT, PREPARING THE APPLICATION, AND PAYING THE SUBMITTAL AND REVIEW FEES NECESSARY TO SECURE PERMITS WILL BE THE TOTAL RESPONSIBILITY OF THE GENERAL CONTRACTOR. A COPY OF ALL PERMITS MUST BE ON SITE AT ALL TIMES.

ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR STORM WATER DISCHARGE, ASSOCIATED WITH CONSTRUCTION ACTIVITY. FOR INFORMATION, CONTACT THE COLORADO DEPARTMENT OF PUBLIC HEALTH, AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, SQCD-PE-B2, 4300 CHERRY CREEK DRIVE SOUTH, DENVER, COLORADO 80246-1530, ATTENTION PERMITS AND ENFORCEMENT SECTION. (303) 692-3500. THE WATER QUALITY PERMITTING PAGE CAN BE ACCESSED AT WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMT.HTML <<http://WWW.CDPHE.STATE.CO.US/WQ/PERMITSUNIT/WQCDPMT.HTML>>.

GENERAL CONSTRUCTION NOTES (CONTINUED)

THE GENERAL CONTRACTOR SHALL PERFORM THE WORK ACCORDING TO ALL CITY, COUNTY, STATE, AND FEDERAL SAFETY AND HEALTH REGULATIONS. IN PARTICULAR, THE "TRENCHING" AND "OPEN EXCAVATION" OPERATIONS SHALL COMPLY WITH ALL CURRENT O.S.H.A. REGULATORY REQUIREMENTS.

A TRAFFIC CONTROL PLAN MUST BE SUBMITTED AND APPROVED FOR ANY AND ALL WORK PERFORMED WITH THE CITY OF EVANS RIGHT-OF-WAY. TRAFFIC CONTROL PLANS CAN BE FAXED TO THE ENGINEERING DIVISION AT (970) 330-3472.

ALL SEEDING SHALL UTILIZE THE CITY OF EVANS IRRIGATION DESIGN GUIDELINES AND THE LAWN AND GRASS SPECIFICATIONS SECTION 02930. ALL WORK INCLUDING WARRANTY WORK, SHALL BE INSPECTED BY A CITY REPRESENTATIVE WHO SHALL HAVE AUTHORITY TO HALT CONSTRUCTION WHEN PROPER CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO.

THERE SHALL BE NO WORK PERFORMED ON THE WEEKENDS, OR HOLIDAYS EXCEPT BY APPROVAL OF THE CITY OF EVANS WITH A MINIMUM OF 24 HOURS NOTICE.

THE GENERAL CONTRACTOR SHALL NOTIFY ALL RESIDENTS IN WRITING PRIOR TO ANY DISRUPTION IN SERVICE. THE NOTICES MUST HAVE THE GENERAL CONTRACTORS PHONE NUMBER AND THE NAME OF A CONTACT PERSON, AND EMERGENCY PHONE NUMBER FOR AFTER HOUR CALLS. NOTICES SHALL NOT BE LEFT IN MAILBOXES UNLESS PROPERLY SENT THROUGH THE U.S. POST OFFICE.

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THEIR OWN DISPOSAL SITE FOR ALL DISPOSED MATERIALS.

POTHOLING SHALL BE PAID FOR AS 203-01597 POTHOLING HOURS 16

THE FOLLOWING SHALL BE PAID FOR AS LUMP SUM:
625-00000 SURVEYING LS 1
626-00000 MOBILIZATION LS 1

ROADWAY IMPROVEMENT NOTES

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF EVANS, AND THE APPROVED PROJECT DOCUMENTS.

IMPROVEMENT PROJECTS WHICH DO NOT HAVE A DEVELOPER'S AGREEMENT SHALL BE REQUIRED BY THE CITY OF EVANS TO EXECUTE AN APPLICATION AND PERMIT FOR EXCAVATION / CONSTRUCTION IN PUBLIC RIGHT OF WAY.

CONCRETE AND ASPHALTIC MIX DESIGN SHALL BE SUBMITTED BY THE SUPPLIER AND APPROVED BY THE CITY OF EVANS PRIOR TO ROADWAY CONSTRUCTION.

FOR PRELIMINARY PLAN QUANTITIES OF PAVEMENT MATERIALS, THE FOLLOWING RATES OF APPLICATION WERE USED:
AGGREGATE BASE COURSE CLASS 6@ 133 LBS/CF
HOT MIX ASPHALT@ 110 LBS/SY-IN
DILUTED EMULSIFIED ASPHALT (SLOW-SETTING).....@ 0.10 GAL/SY

A TACK COAT OF DILUTED EMULSIFIED ASPHALT (SLOW-SETTING) IS TO BE APPLIED TO THE EXISTING SURFACE PRIOR TO PAVING. DILUTED EMULSIFIED ASPHALT FOR TACK COAT SHALL CONSIST OF 1 PART EMULSIFIED ASPHALT AND 1 PART WATER.

ROADWAY IMPROVEMENT NOTES (CONTINUED)

ALL EXISTING CURB AND GUTTER, SIDEWALK, AND ADA RAMPS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED AT THE GENERAL CONTRACTOR'S EXPENSE, PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.

WHEN AN EXISTING STREET IS TO BE CUT, THE STREET MUST BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN ITS ORIGINAL CONDITION. SAW CUTS SHOULD BE A CLEAN STRAIGHT VERTICAL LINE PARALLEL OR PERPENDICULAR TO THE FLOW OF TRAFFIC. PATCHES SHALL BE 1 INCH GREATER IN DEPTH THAN THE EXISTING ASPHALT MATERIAL THAT WAS REMOVED.

ALL LARGE PATCHES (GREATER THAN 10' WIDE AND 20' LONG) SHALL BE PAVED BY AN ASPHALT LAY-DOWN MACHINE. IN STREETS WHERE MORE THAN ONE CUT IS MADE, AN OVERLAY OF THE ENTIRE STREET WIDTH, INCLUDING THE PATCHED AREA MAY BE REQUIRED.

STREET SUBGRADES SHALL BE SCARIFIED THE TOP 6 INCHES AND RECOMPACTED PRIOR TO SUB-BASE INSTALLATION. NO BASE MATERIAL SHALL BE LAID UNTIL THE SUBGRADE HAS BEEN INSPECTED BY SCHEDULING A PROOF ROLL WITH THE CITY OF EVANS, AND APPROVED BY THE CITY OF EVANS ENGINEERING DIVISION.

PRIOR TO PAVEMENT INSTALLATION BASE MATERIAL SHALL BE INSPECTED BY A PROOF ROLL SCHEDULED WITH THE CITY OF EVANS, AND APPROVED BY THE CITY OF EVANS ENGINEERING DIVISION.

VALVE BOXES, MANHOLES, CLEANOUTS, AND SURVEY MONUMENT BOXES ARE REQUIRED TO BE BROUGHT UP TO THE SUBGRADE LEVEL PRIOR TO PAVEMENT INSTALLATION. ALL LOCATIONS AND DISTANCES OF THE VALVE BOXES AND MANHOLES SHOULD BE CLEARLY LABELED ON THE CURB AND GUTTER IN WHITE PAINT. ONCE THE PAVEMENT IS INSTALLED ALL VALVE BOXES, MANHOLES, CLEANOUTS, AND SURVEY MONUMENT BOXES SHALL BE RAISED TO 5/64" BELOW ASPHALT GRADE AND HAVE A ONE FOOT CONCRETE COLLAR INSTALLED AROUND THE OUTER DIAMETER OF THE FITTINGS.

NUCLEAR GAUGE TESTING DATA BY A THIRD PARTY TESTING COMPANY FOR COMPACTION AND MOISTURE CONTENT OF ALL UTILITY TRENCHES, SUBGRADE, AND BASE MATERIAL IS TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. FAX REPORTS TO (970) 330-3472 ATTN. ENGINEERING DIVISION.

CONCRETE CURB AND GUTTER, SIDEWALKS, AND STREET PAVING SHALL NOT BEGIN UNTIL ALL TESTING DATA HAS BEEN RECEIVED BY THE CITY OF EVANS, AND SUBGRADE PROOF ROLLS BY THE CITY OF EVANS ENGINEERING DIVISION HAS BEEN COMPLETED.

NUCLEAR GAUGE TESTING DATA BY A THIRD PARTY TESTING COMPANY FOR COMPACTION, VOIDS, AND SEGREGATION OF THE ASPHALT MAT IS TO BE SUBMITTED TO THE CITY OF EVANS IN A TIMELY MANNER. FAX REPORTS TO (970) 330-3472 ATTN. ENGINEERING DIVISION.

THE GENERAL CONTRACTOR SHALL MAINTAIN ALL NECESSARY BARRICADES, PERMANENT SIGNS, TEMPORY SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES DAILY DURING CONSTRUCTION AND BETWEEN PHASES OF CONSTRUCTION.

THE ROADWAY AND RELATED WORK AREAS SHALL BE LEFT WITH A CLEAN AND FINISHED APPEARANCE. IN NO CASE SHALL MATERIAL REMOVED FROM THE RIGHT-OF-WAY BE STOCKPILED AND LEFT IN SUCH A MANNER AS TO POSE A HAZARD TO THE PUBLIC. THE GENERAL CONTRACTOR SHALL REMOVE ALL DEBRIS FROM THE SIDEWALKS, CURB AND GUTTERS, PANS, AND DRIVEWAYS AT THE CONSTRUCTION SITE AND DISPOSE OF THE DEBRIS IN AN APPRIOPRIATE LOCATION.

Print Date: 5/18/2016		<div>0000</div>	Sheet Revisions			US 85 Access Control at 37th Street		<div><div><div></div><div>City of Evans, Colorado</div></div><div><div>CDOT</div><div>CO</div><div>Region 04</div></div></div>	As Constructed	GENERAL NOTES				Project No./Code	
File Name: StVrain_GEN_Notes02.dgn			Date:	Comments	Init.	No Revisions:	STM M415-014								
Horiz. Scale: 1:1 Vert. Scale: As Noted						Revised:	Designer: M. FOLWELL		Structure Numbers	18404					
<div><div><div></div><div></div></div><div>1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139</div></div>						Void:	Detailer: C. SAXE								
						Sheet Subset: GENOTES	Subset Sheets: 1 of 2		Sheet: 4						

EROSION CONTROL NOTES

EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY LAND DISTURBING ACTIVITY COMMENCES.

A 20'X 20' CONCRETE WASH OUT AREA SHALL BE ESTABLISHED NEAR THE EXIT TO THE SITE. THE AREA SHALL BE FENCED WITH ORANGE SAFETY FENCING ON THREE SIDES AND HAVE AN EARTHEN BERM, OR DEPRESSION CUT INTO THE GRADE TO CONTAIN WATER AND CONCRETE FROM LEAVING THE AREA. A SIGN DIRECTING ALL CONCRETE TRUCKS TO THE WASHOUT MUST BE ERECTED AT ALL ENTRANCES TO THE SITE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE WASHOUT AREA PRIOR TO LEAVING THE SITE ONCE INITIAL SITE CONSTRUCTION IS COMPLETE. BURYING OF THE DEBRIS IS STRICTLY PROHIBITED.

SILT FENCE SHALL BE PLACED ALONG PERIMETER OF SITE. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND SHALL BE RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENTS, EROSION, OR POLLUTANTS LEAVING THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY.

NO SOIL STOCKPILE SHALL EXCEED 10 FEET IN HEIGHT. ALL SOIL STOCKPILES SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY SURFACE ROUGHENING, WATERING, AND PERIMETER SILT FENCING. ANY SOIL STOCKPILES REMAINING AFTER THREE MONTHS FROM THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES SHALL BE SEEDED WITH A TEMPORARY COVER CROP, OR REMOVED FROM THE SITE.

THE DEVELOPER/OWNER IS RESPONSIBLE FOR HIRING A CONTRACTOR TO REMOVE ALL TEMPORARY EROSION CONTROL MEASURES ONCE CONSTRUCTION IS COMPLETE AND ALL OPEN SPACE AREAS, OUTLOTS, DETENTION PONDS, FOREBAYS, AND TRAIL CORRIDORS ARE STABILIZED WITH AT LEAST 80 PERCENT GROWTH OF SEEDED GROUND COVER.

GRADING NOTES

GRADES SHOWN ON PLANS ARE FINISHED GRADES. FOR SUBGRADE ELEVATIONS, REFER TO THE PAVING SECTIONS AND DETAILS.

ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STORM WATER DISCHARGE PERMIT ISSUED FOR THIS PROJECT.

EROSION CONTROL MEASURES OUTLINED ON THE EROSION CONTROL/GRADING PLAN MUST BE IN PLACE PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITY. (STOCKPILING, STRIPPING, GRADING, ETC.)

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EROSION CONTROL MEASURES AND SHALL BE RESPONSIBLE FOR ANY AND ALL FINES ASSOCIATED WITH THE DISCHARGE OF SEDIMENTS, EROSION, OR POLLUTANTS LEAVING THE SITE AS A RESULT OF CONSTRUCTION ACTIVITY.

THE GENERAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE PLAN ALIGNMENT AND GRADE IN ALL ROADWAYS, PARCELS/LOTS, OPEN SPACES, DITCHES, SWALES, DETENTION PONDS, AND FOREBAYS SO THAT ALL DRAINAGE IS DIRECTED IN A POSITIVE FLOW TO ALL DRAINAGE STRUCTURES INDICATED ON THE CONSTRUCTION PLANS AT THE COMPLETION OF CONSTRUCTION.

SUBGRADE SHALL BE RIPPED, COMPACTED, AND SHAPED PER CITY STANDARDS AND SPECIFICATIONS. THE CITY OF EVANS ENGINEERING DIVISION SHALL BE NOTIFIED 24 HOURS IN ADVANCE TO SCHEDULE A PROOF ROLL OF ALL SUBGRADE WHERE ROADWAYS, SIDEWALKS, PANS, APRONS, CURB AND GUTTER, AND OTHER PUBLIC IMPROVEMENTS WILL BE PLACED.

ALL PARKWAYS, AND PROPERTIES ADJACENT TO SIDEWALKS, SHALL BE BACKFILLED AND COMPACTED IN A TIMELY MANNER TO PREVENT WEATHER RELATED STANDING WATER FROM ENTERING THE ROADWAY SUBGRADE. THE GENERAL CONTRACTOR SHALL BE HELD LIABLE FOR ANY AND ALL DAMAGE CAUSED BY FAILURE TO BACKFILL THESE AREAS IN A TIMELY MANNER.

GENERAL UTILITY NOTES

BEFORE YOU DIG, GRADE, OR EXCAVATE CALL THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1 (800) 922-1987 FOR ALL EXISTING UNDERGROUND UTILITIES.

IT IS THE GENERAL CONTRACTORS RESPONSIBILITY TO MAINTAIN ANY TEMPORARY ROADWAY PATCHES THAT MAY OCCUR IN ORDER TO REOPEN A ROADWAY WHILE CONSTRUCTION ACTIVITY PROGRESSES, UNTIL SUCH TIME A PERMANENT PATCH CAN BE INSTALLED.

ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE LATEST REVISION OF CDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION UNLESS OTHERWISE NOTED.

ALL WORK INCLUDING WARRANTY WORK, SHALL BE INSPECTED BY A CITY REPRESENTATIVE WHO SHALL HAVE AUTHORITY TO HALT CONSTRUCTION WHEN STANDARD CONSTRUCTION PRACTICES ARE NOT BEING ADHERED TO.

DURING CONSTRUCTION WHENEVER ANY PIPELINE IS LEFT UNATTENDED, TEMPORARY PLUGS SHALL BE INSTALLED AT ALL OPENINGS. TEMPORARY PLUGS SHALL BE WATER TIGHT, AND OF SUCH DESIGN AS TO PREVENT CHILDREN AND ANIMALS FROM ENTERING THE PIPE.

PIPE SHALL BE LAID UPSTREAM WITH THE SPIGOT ENDS POINTING DOWNSTREAM. ALL PIPES SHALL BE PLACED TRUE TO LINE AND GRADE WITH ENDS ABUTTING, CAREFULLY CENTERED, AND WITH A SMOOTH INVERT AT THE JOINT.

ALL POTABLE WATER, NON-POTABLE WATER, AND SANITARY SEWER SERVICES SHALL HAVE THEIR APPROXIMATE LOCATIONS STAMPED IN THE CONCRETE CURB AND GUTTER WITH THE INITIALS "W", "NP", AND "S" RESPECTIVELY. ADDITIONAL STAMPS FOR GAS "G" AND ELECTRIC "E" MAY ALSO BE NECESSARY AND ARE AT THE DISCRETION OF THE CONTRACTOR TO PERFORM.

STORM DRAINAGE NOTES

IF THE CONSTRUCTION SITE IS ONE ACRE OR GREATER IN SIZE, OR IF ANY FORM OF DE-WATERING IS TO BE USED ON THE CONSTRUCTION SITE, THEN PROOF OF A STORM WATER DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT IS REQUIRED TO BE SUBMITTED TO THE CITY OF EVANS PRIOR TO BEGINNING ANY CONSTRUCTION ACTIVITY.

THE GENERAL CONTRACTOR SHALL GIVE THE CITY OF EVANS AT LEAST 24 HOURS ADVANCE NOTICE BEFORE BEGINNING CONSTRUCTION. A PRECONSTRUCTION MEETING WITH THE CITY OF EVANS IS THE PREFERRED METHOD OF NOTIFYING THE CITY OF CONSTRUCTION ACTIVITY. ALL STORM WATER CONSTRUCTION SHALL CONFORM TO THE CITY OF EVANS STANDARDS AND SPECIFICATIONS CURRENT TO THE DATE OF CONSTRUCTION. A CURRENT COPY CAN BE DOWNLOADED FROM THE CITY OF EVANS WEBSITE AT WWW.CITYOF EVANS.ORG.

THE CITY OF EVANS SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE OF STORM DRAINAGE FACILITIES LOCATED ON PRIVATE PROPERTY. MAINTENANCE OF ONSITE DRAINAGE STRUCTURES AND FACILITIES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER / OWNER UNTIL THE FINAL ACCEPTANCE OF THE PROJECT IS COMPLETE.

LANDSCAPING NOTES

GRASS SEED SHALL BE PLANTED WITH A GRASS SEED DRILL (NOT A GRAIN DRILL) AT A DEPTH OF 1/2" TO 3/4". BROADCAST SEEDING OF GRASS SEED IS NOT ACCEPTABLE. STRAW MULCH SHALL BE SPREAD AND CRIMPED INTO THE SOIL AT A RATE OF 4,000 LBS/ACRE. HYDROSEEDING AND HYDROMULCHING IS ACCEPTABLE IN LIEU OF DRILL SEEDING AND CRIMPING OF MULCH STRAW.

ALL PLANTINGS REQUIRED BY THE PLANNING DIVISION APPROVED LANDSCAPING PLAN SHALL UTILIZE THE CITY OF EVANS PARKS AND RECREATION APPROVED LANDSCAPING PLANTING LIST.

ALL SEEDING REQUIRED BY EITHER THE CITY OF EVANS ENGINEERING DIVISION, OR PLANNING DIVISION SHALL UTILIZE THE CITY OF EVANS PARKS AND RECREATION IRRIGATION DESIGN GUIDELINES.

TRAFFIC CONTROL NOTES

THIS PROJECT IS CONSIDERED NON-SIGNIFICANT PER CDOT SPECIFICATIONS.

ROADWAY TRAFFIC SIGNAGE HAS BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF CONSTRUCTION PLAN REVIEW AND APPROVAL. PRIOR TO INITIATION OF THE WARRANTY PERIOD, THE CITY OF EVANS RESERVES THE RIGHT TO REQUIRE ADDITIONAL SIGNAGE IF IT DETERMINES THAT AN UNFORSEEN CONDITION WARRANTS SUCH ACCORDING TO THE MUTCD, OR THE CDOT STANDARD PLANS M & S STANDARDS.

ALL SIGNAGE SHALL FALL UNDER THE REQUIREMENTS OF THE TWO YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION.

LOCATIONS OF EXISTING SIGNS ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE WITH THE CITY OF EVANS TO DETERMINE IF EXISTING SIGNS NOT SHOWN ON THE CONSTRUCTION PLANS SHALL BE RESET OR REMOVED.

ALL SIGNS AND PAVEMENT MARKINGS SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH MUTCD STANDARDS.

THE DEVELOPER / CONTRACTOR INSTALLING THE SIGNS SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UNDERGROUND UTILITIES.

STREET AND AVENUE SIGNS SHALL BE EXTRUDED ALUMINUM 6" X 30" MINIMUM, CITY OF EVANS STANDARD REFLECTIVE GREEN BACKGROUND WITH WHITE BLOCK LETTERING, CITY LOGO, AND NUMBERING. ALL SIGNS SHALL BE MOUNTED WITH VANDAL-PROOF BOLTS. ALL SIGNS SHALL BE INSTALLED ON UNISTRUT TELES PAR TYPE PERFORATED POSTS WITH ANCHORS AT THE PROPER HEIGHT AS PER CURRENT MUTCD STANDARDS.

UNISTRUT TELSPAR TYPE POSTS SHALL MEET OR EXCEED THE FOLLOWING:
1. POSTS - 1 3/4" X 1 3/4", 12 GAUGE, ASTM SPECIFICATION NUMBER A4446, GRADE A, DRILLED ON 1" CENTERS.
2. ANCHORS - 2" X 2", 12 GAUGE, ASTM SPECIFICATION NUMBER A4446, DRILLED ON 1" CENTERS.
3. ALL POSTS AND ANCHORS SHALL BE GALVINIZED TO ASTM SPECIFICATION A52 COATING DESIGNATION G90.

THE CITY OF EVANS FOLLOWS ALL PAVEMENT MARKING STANDARDS SET FORTH IN THE CURRENT EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD).

STRIPING HAS BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF CONSTRUCTION PLAN REVIEW AND APPROVAL. PRIOR TO INITIATION OF THE WARRANTY PERIOD, THE CITY RESERVES THE RIGHT TO REQUIRE ADDITIONAL STRIPING IF THE CITY ENGINEER DETERMINES THAT AN UNFORSEEN CONDITION WARRANTS SUCH ACCORDING TO THE MUTCD OR THE CDOT STANDARD PLANS M & S STANDARDS.

ALL STRIPING SHALL FALL UNDER THE REQUIREMENTS OF THE TWO YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION. (EXCEPT NORMAL TRAFFIC WEAR ON TRAFFIC MARKINGS)

ALL SURFACES SHALL BE THOROUGHLY CLEANED PRIOR TO INSTALLATION OF STRIPING OR MARKINGS TO PREPARE THE PAVEMENT SURFACE FOR PROPER ADHESION. ALL SYMBOLS, INCLUDING ARROWS, ONLYS, CROSSWALKS, STOP BARS, ETC. SHALL BE PRE-FORMED THERMOPLASTIC, PAINTED, OR EPOXY PER THE CITY OF EVANS STANDARDS. MARKINGS THAT MUST BE VISIBLE AT NIGHT SHALL BE RETROREFLECTIVE UNLESS AMBIENT ILLUMINATION ASSURES THAT THE MARKINGS ARE ADEQUATELY VISIBLE.

REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE SURFACE OR TEXTURE OF THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. UNDER NO CIRCUMSTANCES SHALL BLACK PAINT BE USED TO COVER EXISTING MARKINGS, OR MISTAKES IN STRIPING.

PRIOR TO PERMANENT INCORPORATION OF STEEL OR IRON PRODUCTS INTO THE PROJECT, THE CONTRACTOR SHALL FURNISH TO THE PROJECT ENGINEER A WRITTEN STATEMENT SIGNED BY THE CONTRACTOR (SEE EXAMPLES IN FIELD MATERIAL MANUAL) THAT THE CERTIFICATIONS REQUIRED BY THE AMERICA SPECIFICATION ARE ON AND THE STEEL AND IRON PRODUCTS ARE IN COMPLIANCE WITH THE BUY AMERICA SPECIFICATION.

Print Date: 5/18/2016		<div>0000</div>	Sheet Revisions			<div>US 85 Access Control at 37th Street</div> <div></div>	As Constructed		GENERAL NOTES			Project No./Code	
File Name: StVrain_GEN_Notes03.dgn			Date:	Comments	Init.		No Revisions:					STM M415-014	
Horiz. Scale: 1:1 Vert. Scale: As Noted							Revised:		Designer: M. FOLWELL	Structure Numbers	18404		
 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139							Void:		Detailer: C. SAXE				
									Sheet Subset: GENOTES	Subset Sheets: 2 of 2	Sheet: 5		

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ITEM NO.	QUANTITY ITEMS	UNIT	ROADWAY		TRAFFIC		DRAINAGE		PROJECT TOTALS	
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
201-00001	Clearing and Grubbing	ACRE	1.45						1.45	
202-00200	Removal of Sidewalk	SY	437						437	
202-00202	Removal of Gutter	LF	235						235	
202-00203	Removal of Curb and Gutter	LF	1188						1,188	
202-00206	Removal of Concrete Curb Ramp	SY	36						36	
202-00210	Removal of Concrete Pavement	SY	147						147	
202-00220	Removal of Asphalt Mat	SY	2471						2,471	
202-00810	Removal of Ground Sign	EACH	5						5	
202-00828	Removal of Traffic Signal Equipment	LS	1						1	
202-05010	Sawing Concrete Material (10 Inch)	LF	185						185	
202-05026	Sawing Asphalt Material (6 Inch)	LF	621						621	
203-00000	Unclassified Excavation	CY	2962						2,962	
203-01597	Potholing	HOUR	16						16	
208-00002	Erosion Log (12 Inch)	LF					200		200	
208-00011	Erosion Bales (Weed Free)	EACH					20		20	
208-00020	Silt Fence	LF					2000		2,000	
208-00034	Gravel Bag	LF					100		100	
208-00045	Concrete Washout Structure	EACH					1		1	
208-00070	Vehicle Tracking Pad	EACH					2		2	
208-00103	Removal and Disposal of Sediment (Labor)	HOUR					10		10	
208-00105	Removal and Disposal of Sediment (Equipment)	HOUR					10		10	
208-00106	Sweeping (Sediment Removal)	HOUR					30		30	
208-00107	Removal of Trash	HOUR					20		20	
208-00206	Erosion Control Supervisor	DAY					60		60	
210-00010	Reset Mailbox Structure	EACH	4						4	
210-00050	Reset Fire Hydrant	EACH	1						1	
210-00810	Reset Ground Sign	EACH	4						4	
210-04010	Adjust Manhole	EACH	5						5	
210-04015	Modify Manhole	EACH	1						1	
210-04050	Adjust Valve Box	EACH	4						4	
212-00006	Seeding (Native)	ACRE	0.75						0.75	
213-00012	Spray-on Mulch Blanket	LB	150						150	
213-00061	Mulch Tackifier	LB	150						150	
304-06000	Aggregate Base Course (Class 6)	TON	1969						1,969	
403-00720	Hot Mix Asphalt (Patching) (Asphalt)	TON	39						39	
403-33841	Hot Mix Asphalt (Grading S) (100) (PG 64-22)	TON	1093						1,093	
411-10255	Emulsified Asphalt (Slow-Setting)	GAL	517						517	

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File Name: StVrain_DES_SDAQ-01.dgn			Date:	Comments	Init.				No Revisions:		Designer: M. FOLWELL		Structure		STM M415-014	
Horiz. Scale: 1:1 Vert. Scale: As Noted									Revised:		Detailer: C. SAXE		Numbers		18404	
<div></div> <div>1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139</div>									Void:		Sheet Subset: SAQ		Subset Sheets: 1 of 3		Sheet: 6	

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ITEM NO.	QUANTITY ITEMS	UNIT	ROADWAY		TRAFFIC		DRAINAGE		PROJECT TOTALS	
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
412-00600	Concrete Pavement (6 Inch)	SY	731						731	
503-00036	Drilled Caisson (36 Inch)	LF			57				57	
504-08255	Masonry Landscape Wall (Dry Stack)	SF	650						650	
603-01245	24 Inch Reinforced Concrete Pipe (Complete In Place)	LF					69		69	
604-19110	Inlet Type R L 5 (10 Foot)	EACH					4		4	
604-30010	Manhole Slab Base (10 Foot)	EACH					2		2	
608-00006	Concrete Sidewalk (6 Inch)	SY	1181						1,181	
608-00010	Concrete Curb Ramp	SY	166						166	
609-21010	Curb and Gutter Type 2 (Section I-B)	LF	116						116	
609-21020	Curb and Gutter Type 2 (Section II-B)	LF	3047						3,047	
609-21021	Curb, Gutter and Sidewalk Type 2 (Section MS)	LF	189						189	
609-24004	Gutter Type 2 (4 Foot)	LF	160						160	
609-24008	Gutter Type 2 (8 Foot)	LF	193						193	
610-00024	Median Cover Material (4 Inch Patterned Concrete)	SF	90						90	
613-01200	2 Inch Electrical Conduit (Plastic)	LF			250				250	
613-01300	3 Inch Electrical Conduit (Plastic)	LF			500				500	
613-10000	Wiring	L S			1				1	
614-00011	Sign Panel (Class I)	SF			132				132	
614-01502	Steel Sign Support (2-Inch Round) (Post & Socket)	LF			150				150	
614-01572	Steel Sign Support (2-Inch Round NP-40) (Post & Slipbase)	EACH			95				95	
614-70150	Pedestrian Signal Face (16) (Countdown)	EACH			6				6	
614-70336	Traffic Signal Face (12-12-12)	EACH			10				10	
614-72860	Pedestrian Push Button	EACH			6				6	
614-72866	Fire Preemption Unit and Timer	EACH			3				3	
614-72886	Intersection Detection System (Camera)	EACH			3				3	
614-81140	Traffic Signal-Light Pole Steel (1 - 40 Foot Mast Arm)	EACH			3				3	
614-86240	Traffic Signal Controller (Type 170)	EACH			1				1	
625-00000	Surveying	LS	1						1	
626-00000	Mobilization	LS	1						1	
627-00005	Epoxy Pavement Marking	GAL			10				10	
627-30410	Preformed Thermoplastic Pavement Marking (Word-Symbol)	SF			54				54	
627-30410	Preformed Thermoplastic Pavement Marking (Xwalk-Stopline)	SF			228				228	
630-00000	Flagging	HOURL	300						300	
630-00003	Uniformed Traffic Control	HOURL	4						4	
630-00007	Traffic Control Inspection	DAY	30						30	
630-00012	Traffic Control Management	DAY	80						80	

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US 85 Access Control
at 37th Street



As Constructed

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SUMMARY OF
APPROXIMATE QUANTITIES

Designer: M. FOLWELL

Detailer: C. SAXE

Sheet Subset: SAQ

Structure
Numbers

Subset Sheets: 2 of 3

Project No./Code

STM M415-014

18404

Sheet:

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ITEM NO.	QUANTITY ITEMS	UNIT	ROADWAY		TRAFFIC		DRAINAGE		PROJECT TOTALS	
			PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.	PLAN	AS CONST.
630-80335	Barricade (Type 3 M-A) (Temporary)	EACH	6						6	
630-80341	Construction Traffic Sign (Panel Size A)	EACH	34						34	
630-80342	Construction Traffic Sign (Panel Size B)	EACH	4						4	
630-80355	Portable Message Sign Panel	EACH	2						2	
630-80358	Advance Warning Flashing or Sequencing Arrow Panel (C Type)	EACH	2						2	
630-80360	Drum Channelizing Device	EACH	200						200	
630-80380	Traffic Cone	EACH	200						200	
700-70010	F/A Minor Contract Revisions	FA	1						1	
700-70016	F/A Fuel Cost Adjustment	FA	1						1	
700-70019	F/A Asphalt Cement Cost Adjustment	FA	1						1	
700-70022	F/A OJT Colorado Training Program	FA	1						1	
700-70170	F/A Pothole Utilities	FA	1						1	

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US 85 Access Control
at 37th Street



City of
Evans, Colorado



Region 04

As Constructed	SUMMARY OF APPROXIMATE QUANTITIES		Project No./Code
			STM M415-014
No Revisions:	Designer: M. FOLWELL	Structure Numbers	18404
Revised:	Detailer: C. SAXE		
Void:	Sheet Subset: SAQ	Subset Sheets: 3 of 3	Sheet: 8

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SUMMARY OF EARTHWORK	
US 85 ACCESS CONTROL AT 37TH STREET	PLAN (CY)
<u>FOR INFORMATION ONLY</u>	
<u>EMBANKMENT MATERIAL (COMPLETE IN PLACE)</u>	
FROM CROSS SECTIONS	
36TH STREET	539
ST VRAIN STREET	15
IDAHO STREET	112
WEST ACCESS CUL-DE-SAC	33
WEST ACCESS CONNECTOR	112
FROM DRAINAGE	
ST VRAIN STREET AND IDAHO STREET	5
TOTAL EMBANKMENT MATERIAL	816
<u>UNCLASSIFIED EXCAVATION (COMPLETE IN PLACE)</u>	
FROM CROSS SECTIONS	
36TH STREET	135
ST VRAIN STREET	2,657
IDAHO STREET	88
WEST ACCESS CUL-DE-SAC	42
WEST ACCESS CONNECTOR	20
FROM DRAINAGE	
ST VRAIN STREET AND IDAHO STREET	20
TOTAL UNCLASSIFIED EXCAVATION (PAY ITEM)	2,962

SUMMARY OF EARTHWORK (FOR INFORMATION ONLY)	
US 85 ACCESS CONTROL AT 37TH STREET	PLAN (CY)
<u>COMPACTION (MOISTURE & DENSITY CONTROL)</u>	
EMBANKMENT (NET)	816
TOTAL (FOR INFORMATION ONLY)	816
<u>WETTING (FOR COMPACTION)</u>	
	MGAL/CY
(816 X 0.040 M GALLONS/CY OF EARTHWORK)	33
TOTAL (FOR INFORMATION ONLY)	33
<u>EARTHWORK QUANTITY BALANCE (FOR INFORMATION ONLY)</u>	
	PLAN (CY)
<u>UNCLASSIFIED EXCAVATION</u>	
ROADWAY AND DRAINAGE	2,962
EXCESS MATERAIL TO BE DISPOSED OF BY CONTRACTOR PER THE DIRECTION OF THE ENGINEER	-1,944
<u>EMBANKMENT MATERIAL</u>	
EMBANKMENT X FACTOR(1.2)	1,018
TOTAL BALANCE (FOR INFORMATION ONLY)	-1,944

Print Date: 5/18/2016
File Name: StVrain_DES_Summary_Earth.dgn
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US 85 Access Control
at 37th Street



City of
Evans, Colorado



Region 04

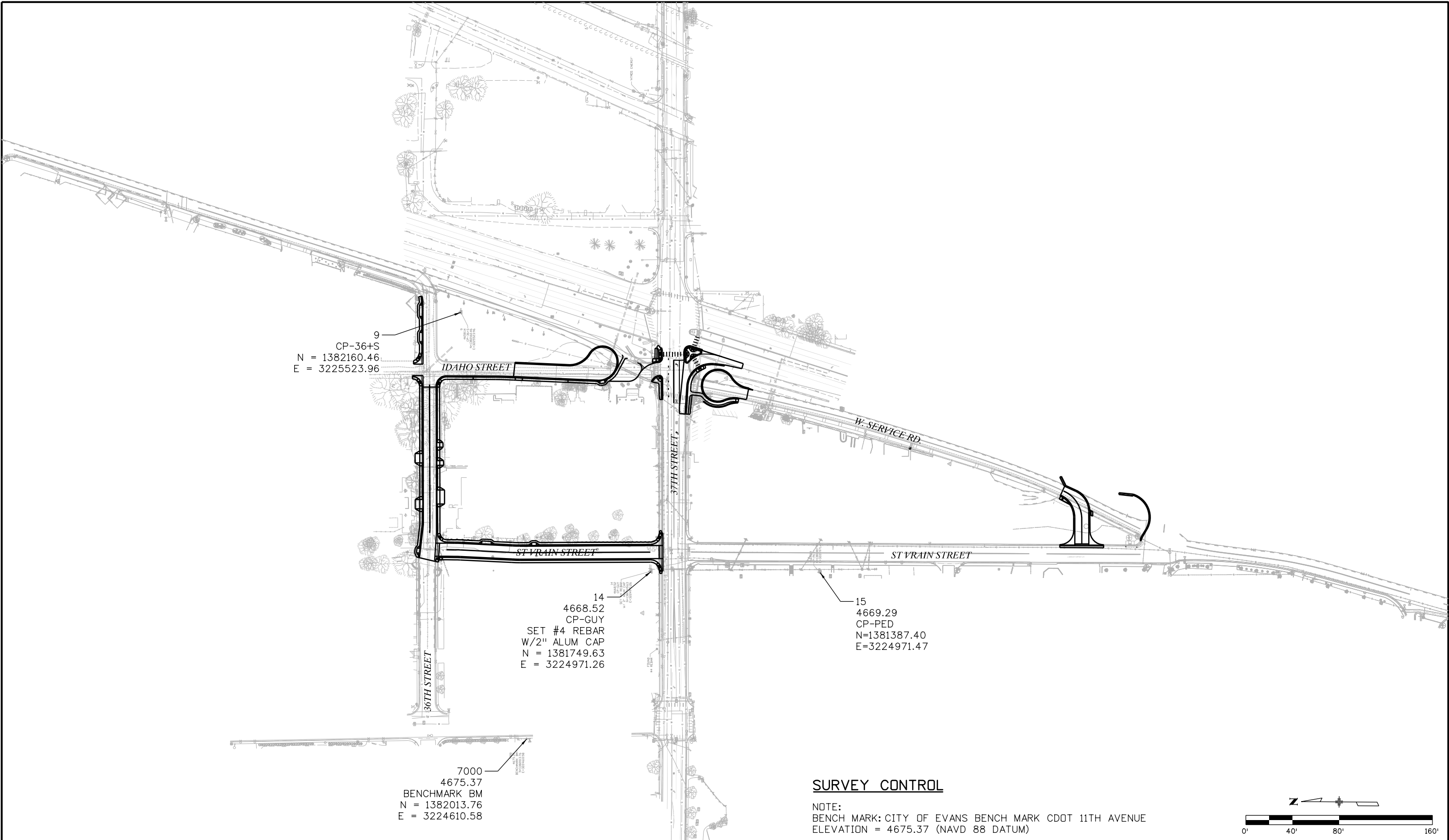
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SUMMARY OF EARTHWORK

Designer: M. FDLWELL	Structure Numbers
Detailer: C. SAXE	
Sheet Subset: TABS	Subset Sheets: 1 of 1

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File Name: StVrain_SURV-SurveyCntrl.dgn			Date:	Comments	Init.				No Revisions:		DIAGRAM			STM M415-014	
Horiz. Scale: 1:200 Vert. Scale: As Noted									Revised:		Designer: J. WENGER	Structure Numbers	18404		
<div> 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139</div>									Void:		Detailer: M. HOFFMAN				
									Sheet Subset: SURVEY		Subset Sheets: 1 of 1		Sheet: 10		

TO ESTABLISH GEOMETRIC CONTROL FOR THE CONSTRUCTION OF THIS PROJECT, THE DEPARTMENT HAS PROVIDED THE FOLLOWING INFORMATION:

Format *

☐ Horizontal Control

☐ Vertical Control

☐ Roadway Alignment

☐ Original Terrain Data

☐ Other: _____

* Specify the information format, i.e., plan sheet, computer disk, computer printout, or other. The information marked is either contained on the plans or is available from the Engineer.

TYPE OF PROJECT

- ☐ Landscaping
☒ Signalization
☒ Safety Improvement
☐ Asphalt Overlay
☐ Concrete Overlay
☐ Minor Widening
☒ Major Reconstruction
☒ New Roadway Construction
☐ Bridge Replacement
☐ Bridge Widening
☐ New Bridge
☐ Other: _____

SURVEY WORK TO BE PERFORMED BY OTHERS:_____

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 625:

- | | | | | | |
|-------------------------------------|--|------------------------|---------------|----------------|------------|
| <input type="checkbox"/> | Establish and Maintain Project Centerline or Engineer Approved Offset Line(s) | | | | |
| <input type="checkbox"/> | Verification and Maintenance of Horizontal and Vertical Control | | | | |
| <input type="checkbox"/> | Verify or Determine existing grades and alignments | | | | |
| <input type="checkbox"/> | Verify or Determine existing topography | | | | |
| <input type="checkbox"/> | GPS/RTS (Global Positioning System/Robotic Total Station) Construction Machine Control | | | | |
| <input type="checkbox"/> | Clearing and Grubbing Limits (Section 201) | | | | |
| <input type="checkbox"/> | Removal Limits (Section 202) | | | | |
| <input type="checkbox"/> | Reset Items (Section 210) | | | | |
| <input checked="" type="checkbox"/> | Excavation and Embankment (Section 203) | Slope Staking
(Y/N) | Grid
(Y/N) | Grade
(Y/N) | Sp
Inte |

Excavation	Slope Staking (Y/N)	Grid (Y/N)	Grade (Y/N)	Special Interval
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-
	-	-	-	-

- Excavation
 — ☐ Unclassified
 — ☐ Stripping
 — ☐ Muck
 — ☐ Rock
 — ☐ Borrow
 — ☐ Other: _____
 — ☐ Potholing

- ☐ Embankment
☒ Site Grading
☐ Erosion Control (Perm)
☐ Other: _____
☐ As Staked Earthwork Quantities
 (See General Notes)

- ☐ Landscaping
☐ Top Soil (Section 207)
☐ Seeding (Section 212)
☐ Mulching (Section 213)
☐ Planting (Section 214)
☐ Herbicide (Section 217)
☐ Other:

- ☐ Erosion Control (Section 208)
☐ Seeding (Temp)
☐ Silt Fence
☐ Erosion Bales
☐ Erosion Logs
☐ Riprap (Temp)
☐ Other: _____

- □ Roadway Bases
 — □ Untreated Subgrade
 — □ Treated Subgrade
 — ■ Aggregate Base Course (Section 304)
 — □ Reconditioning
 — □ PMBB - Plant Mix Bituminous Base
 — □ Other:

Roadway Bases	Grid (Y/N)	Grade (Y/N)	Special Interval	Special Offset
	-	-	-	-
	-	-	50	-
	-	-	-	-
	-	-	-	-
	-	-	-	-



- ☐ Pavements
☐ ☒ HMA - Hot Mix Asphalt (Section 403)
☐ ☒ Concrete (Section 412)
☐ ☐ Heating & Scarifying Treatment
☐ ☐ Prime Coat, Tack Coat & Rejuvenating Agent (Section 407)
☐ ☐ Seal Coat or Chip Seal (Section 409)
☐ ☐ Other: _____

t	Pavements	Grid (Y/N)	Special Interval	Special Offset
		-	50	-
		-	25	-
		-	-	-
		-	-	-
		-	-	-
		-	-	-

- **■** Roadway Elements
 — **■** Curb and Gutter (Section 609)
 — **□** Drop inlets -
 alignment and grades (Section 604)
 — **■** Retaining Walls
 — **□** Guard Rail (Section 606)
 — **■** Sidewalk (Section 608)
 — **□** Overlay Stationing
 — **□** Other: _____

Curb & Gutter	Tangent Interval	Curve Interval	Special Offset
	-	-	-

Stationing	Left Interval	Center Interval	Right Interval
	-	-	-

-  Riprap (Perm) (Section 506)
—  Slope and Ditch Paving (Section 507)

- ☐ Minor Structures
☐ Structure Excavation limits (Section 206)
☐ Culverts (Section 603)
☐ Culverts w/ Headwalls and Wingwalls (Section 601)
☐ Concrete Box Culverts w/ Headwalls and Wingwalls
☒ Pipes (Section 603)
☐ Sanitary Sewer
☒ Storm Sewer
☐ Water
☐ Irrigation
☐ Miscellaneous
☐ Manholes (Section 604)
☐ Inlets (Section 604)
☐ Permanent Water Quality BMP (Section 208)
☐ Other: _____

- ☐ Major Structures - Overhead Signs (Section 614), Concrete Box Culverts, Bridges -
 and all other structures assigned a structure number
 _____ ☐ Structure Excavation limits (Section 206)
 _____ ☐ Concrete Box Culverts (Section 603) w/ Headwalls and Wingwalls (Section 601)
 _____ ☐ Piling locations and cut off elevations (Section 502)
 _____ ☐ Caisson locations and elevations (Section 503)
 _____ ☐ Footing locations, alignment, and elevations
 _____ ☐ Abutment/Pier locations, alignment, and elevations
 _____ ☐ Wingwall skew angles/offsets
 _____ ☐ Structural concrete form locations
 _____ ☐ Substructure As-constructed survey
 required for Bridges (Subsection 601 .12) and Overhead signs (S-614-50)
 _____ ☐ Bridge expansion joint(s) alignment and grade (longitudinal and transverse)
 _____ ☐ Deck grades at Girder 10th or "n" th point locations and elevations
 _____ ☐ Slope and Ditch Paving (Section 507)
 _____ ☐ Other: _____

- ___ ☐ Fencing (Section 607)
 ___ ☐ Temporary
 ___ ☐ Permanent
 ___ ☐ Sound Barrier
 ___ ☐ Other: _____

- ☐ Delineators (Section 612)
☐ Temporary
☐ Permanent

- ☐ ☒ Lighting (Section 613) and Traffic Control Devices (Permanent) (Section 614)
☐ ☒ Signal pole locations and elevations
☐ ☐ Light pole locations and elevations
☐ ☐ Sign locations
☐ ☐ Field verify sign post locations, elevations, and lengths before fabrication
☐ ☐ Other: _____

- ☐ ☐ Pavement Marking (Section 627)
 - ☐ ☐ Striping (Temp)
 - ☐ ☐ Striping (Perm)
 - ☐ ☐ Symbols
 - ☐ ☐ Other: _____
- ☐ ☐ Temporary Lighting and Construction Traffic Control Devices (Section 630)
 - ☐ ☐ Signal pole locations and elevations (Temp)
 - ☐ ☐ Light pole locations and elevations (Temp)
 - ☐ ☐ Sign Locations (Temp)
 - ☐ ☐ Other: _____

- ■ All Easements (Temp Staking by P.L.S. Only)
— ■ Right of Way (Temp Staking by P.L.S. Only)

WORK PERFORMED BY THE CONTRACTOR'S SURVEYOR UNDER SECTION 629:

- ☐ ☒ Monumentation (Section 629)
☐ ☒ Control
☐ ☒ Right of Way
☐ ☒ Land corners, Aliquot corners
☐ ☒ Easements
☐ ☐ Reference the specified existing monuments: ** _____
☐ ☐ Replace the specified existing monuments: ** _____
☐ ☐ Locate monuments. It is estimated _____ hours are required.

NOTE: All 629 items shall include adequate research, calculations, and evaluations of evidence for monuments to be set.

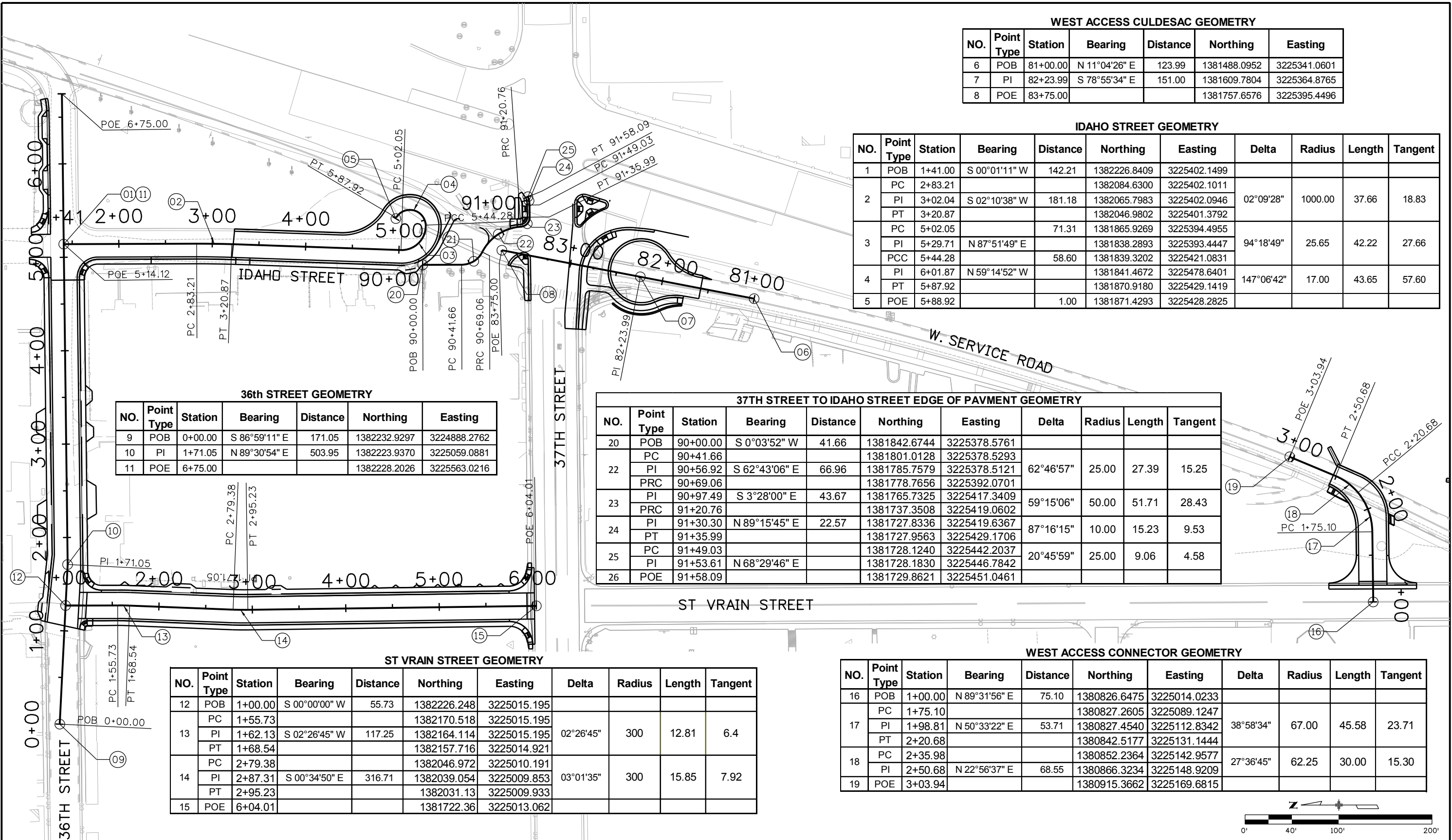
xx A Tabulation of Survey Monuments may be provided on the plans.

GENERAL NOTES:

1. Unless indicated otherwise on this Survey Tabulation Sheet, all survey work and staking intervals shall be done in accordance with the latest edition of the CDDT Survey Manual.
2. Adequate information for establishing lines, grades, and locations for all work items have been specified on the plans. Any additional information required to stake the item or element shall be generated by the Contractor's surveyor.
3. The Contractor's surveyor shall provide an estimate of the man-hours necessary to complete the work items indicated on this sheet. A copy of this sheet, with the estimated man-hours written on the blank line to the left of the specified items, shall be submitted with the Survey Schedule to the Engineer _____ days prior to the Presurvey Conference - Construction Survey.
4. Stakes and Monuments which are damaged or destroyed by the progress of construction shall be replaced by the Contractor at no additional cost to the Department.
5. The Contractor shall furnish an As Staked (or GPS/RTS Construction Machine Control) Earthwork Quantity report to the Engineer prior to completion of twenty percent (20%) of the planned earthwork in any phase as per the CDDT Survey Manual. A printed copy of the As Staked (or GPS/RTS Construction Machine Control) Earthwork data report and a computer disk with that information on it, in the specified format shall be submitted to the Engineer. The Contractor shall field verify original ground cross sections at a maximum 500 feet intervals.
6. Prior to beginning work on any subsequent operation, such as placing base course or paving, the Contractor shall certify in writing to the Engineer that the final grade is within specified tolerance.
7. The Contractor's surveyor shall perform all field surveying and calculations necessary to tie plan grades into field grades.
8. The Contractor shall coordinate construction staking on the project with any utility work.
9. Fieldbooks shall contain daily records of points set and or measurements observed. The information recorded shall contain: date, crew members' names, point no., description, staking information, and sketches. If the survey information is collected electronically, information recorded shall be provided to the Project Engineer in a hard copy format that is intuitive, clear and related to the supplemental information recorded in the field books. All linear surveys, such as slope stakes and blue tops, shall have the station and offset information related to the measured information. Non-linear surveys such as structures staking shall have sketches relating electronic information, such as point numbers, to the sketch.
10. The Contractor's surveyor shall submit the following fieldbooks to the Engineer:
 - ☐ Horizontal Control (Primary & Secondary)
 - ☐ Vertical Control (i.e. Benchmarks)
 - ☐ Property Pin Ties
 - ☐ Horizontal Alignment
 - ☐ Grading
 - ☐ Slope Staking
 - ☐ Minor Structures
 - ☐ Major Structures
 - ☐ One fieldbook for each work category shown on this sheet
 - ☐ Other Fieldbook(s):

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File Name: StVrain_GEN_SurvTab.dgn			Date:	Comments	Init.	No Revisions:			STM M415-014						
Horiz. Scale: 1:1 Vert. Scale: As Noted						Revised:			Designer: J. WENGER	Structure Numbers	18404				
 1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139						Void:			Detailer: J. COLIP		Sheet Subset: SURVTAB Subset Sheets: 1 of 1		Sheet: 11		

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US 85 Access Control
at 37th Street



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Revised:		Detailer: M. HOFFMAN		18404
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		Subset Sheets: 1 of 1		

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TABULATION OF REMOVAL, RESETS AND ADJUSTMENTS															
LOCATION			201-00001	202-00200	202-00202	202-00203	202-00206	202-00210	202-00220	210-00010	210-00050	210-04010	210-04015	210-04050	REMARKS
STATION	SIDE		CLEARING AND GRUBBING	REMOVAL OF SIDEWALK	REMOVAL OF GUTTER	REMOVAL OF CURB AND GUTTER	REMOVAL OF CONCRETE CURB RAMP	REMOVAL OF CONCRETE PAVEMENT	REMOVAL OF ASPHALT MAT	RESET MAILBOX STRUCTURE	RESET FIRE HYDRANT	ADJUST MANHOLE	MODIFY MAHOLE	ADJUST VALVE BOX	
		FROM	TO	ACRE	SY	LF	LF	SY	SY	SY	EACH	EACH	EACH	EACH	
36th Street															
1+05.40	5+14.12	LT	0.27	14	50	118				2		3			
		RT	0.24	12								1			
ST. Vrain Street															
1+00.00	6+02.04	LT	0.35	21		41			9					1	
		RT	0.29	21		41			9		1				
Idaho Street															
1+41.00	5+89.00	LT	0.08	5	46				840			1		2	
		RT	0.04	42	46	181		147		2					
West Access Culdesac															
81+58.19	82+92.48	LT	0.01	130		215	12		683						
		RT	0.10	127	93	294	24		368				1	1	
West Access Connector															
1+13.90	2+53.31	LT	0.03	33		47			541						
		RT	0.04	33		251			21						
TOTALS			1.45	437	235	1188	36	147	2471	4	1	5	1	4	

Print Date: 5/18/2016

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Vert. Scale: As Noted

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US 85 Access Control
at 37th Street

City of
Evans, Colorado

CDOT

Region 04

As Constructed	37TH ACCESS TABULATION OF REMOVALS AND RESETS		Project No./Code
No Revisions:			STM M415-014
Revised:	Designer: J. WENGER	Structure Numbers	18404
Void:	Detailer: J. COLIP		
	Sheet Subset: TABS	Subset Sheets: 1 of 1	Sheet: 13



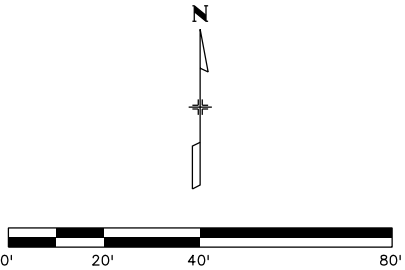
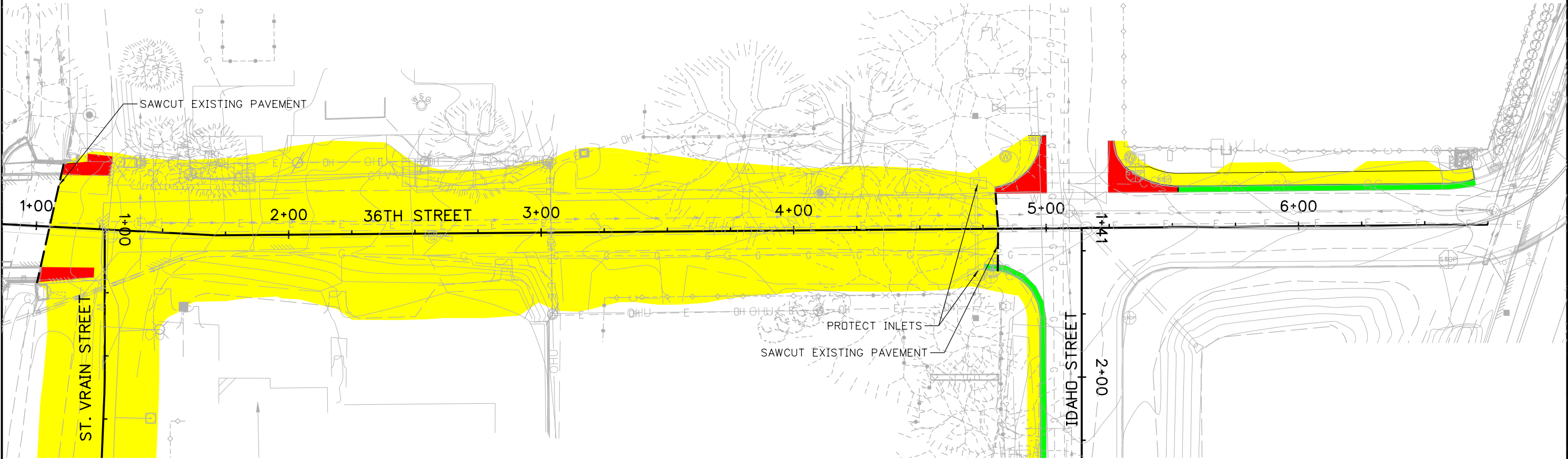
Know what's below.
Call before you dig.

NOTES:

- 1. REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR LIMITS OF CLEARING, GRUBBING AND DEMOLITION.
- 2. THE RIGHT-OF-WAY IN THIS DRAWING IS APPROXIMATE. THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY.

REMOVAL LEGEND:

- ASPHALT REMOVAL
- CURB AND GUTTER REMOVAL
- CONCRETE REMOVAL
- CLEAR AND GRUB



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US 85 Access Control
at 37th Street



As Constructed
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36TH STREET
DEMO PLAN

Designer:	C. SAXE	Structure Numbers	
Detailer:	C. SAXE		
Sheet Subset:	DEMO	Subset Sheets:	1 of 5

Project No./Code
STM M415-014
18404
Sheet: 14



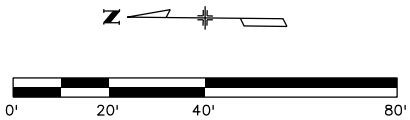
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REMOVAL LEGEND:

- ASPHALT REMOVAL
- CURB AND GUTTER REMOVAL
- CONCRETE REMOVAL
- CLEAR AND GRUB



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US 85 Access Control
at 37th Street



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No Revisions:		Designer: C. SAXE		STM M415-014
Revised:		Detailer:		18404
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- 2. THE RIGHT-OF-WAY IN THIS DRAWING IS APPROXIMATE. THIS DOES NOT CONSTITUTE A BOUNDARY SURVEY.

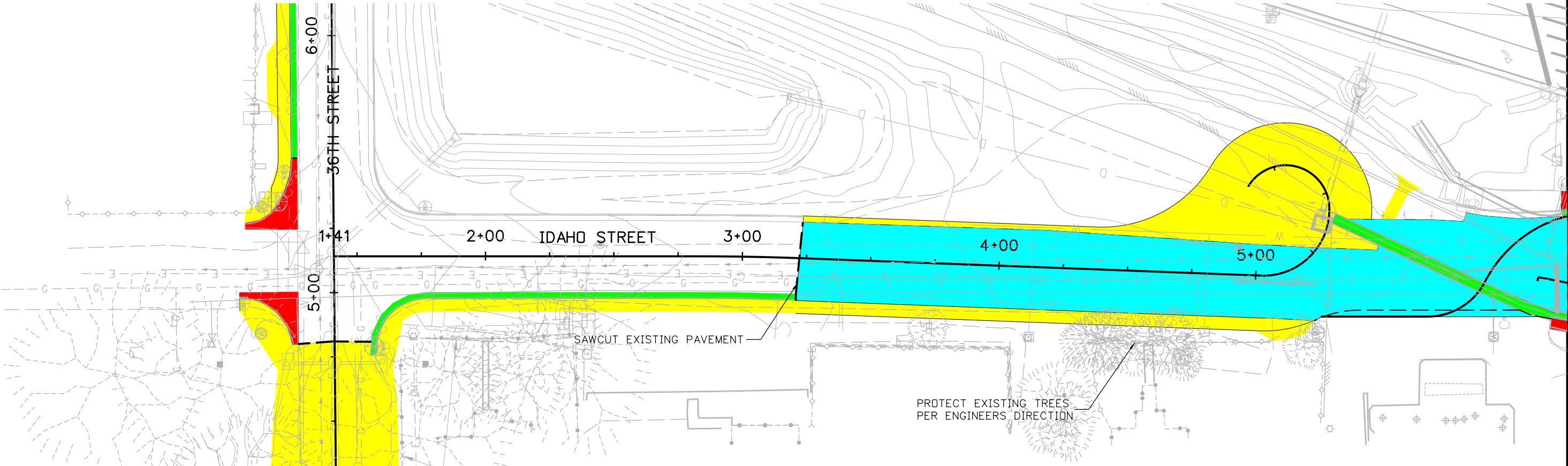
REMOVAL LEGEND:

ASPHALT REMOVAL

CURB AND GUTTER REMOVAL

CONCRETE REMOVAL

CLEAR AND GRUB



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File Name: StVrain_DEMO_Plan03.dgn
Horiz. Scale: 1:40 Vert. Scale: As Noted

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US 85 Access Control
at 37th Street



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No Revisions:					STM M415-014
Revised:		Designer: C. SAXE	Structure Numbers		18404
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		Sheet Subset: DEMO	Subset Sheets: 3 of 5	Sheet:	16

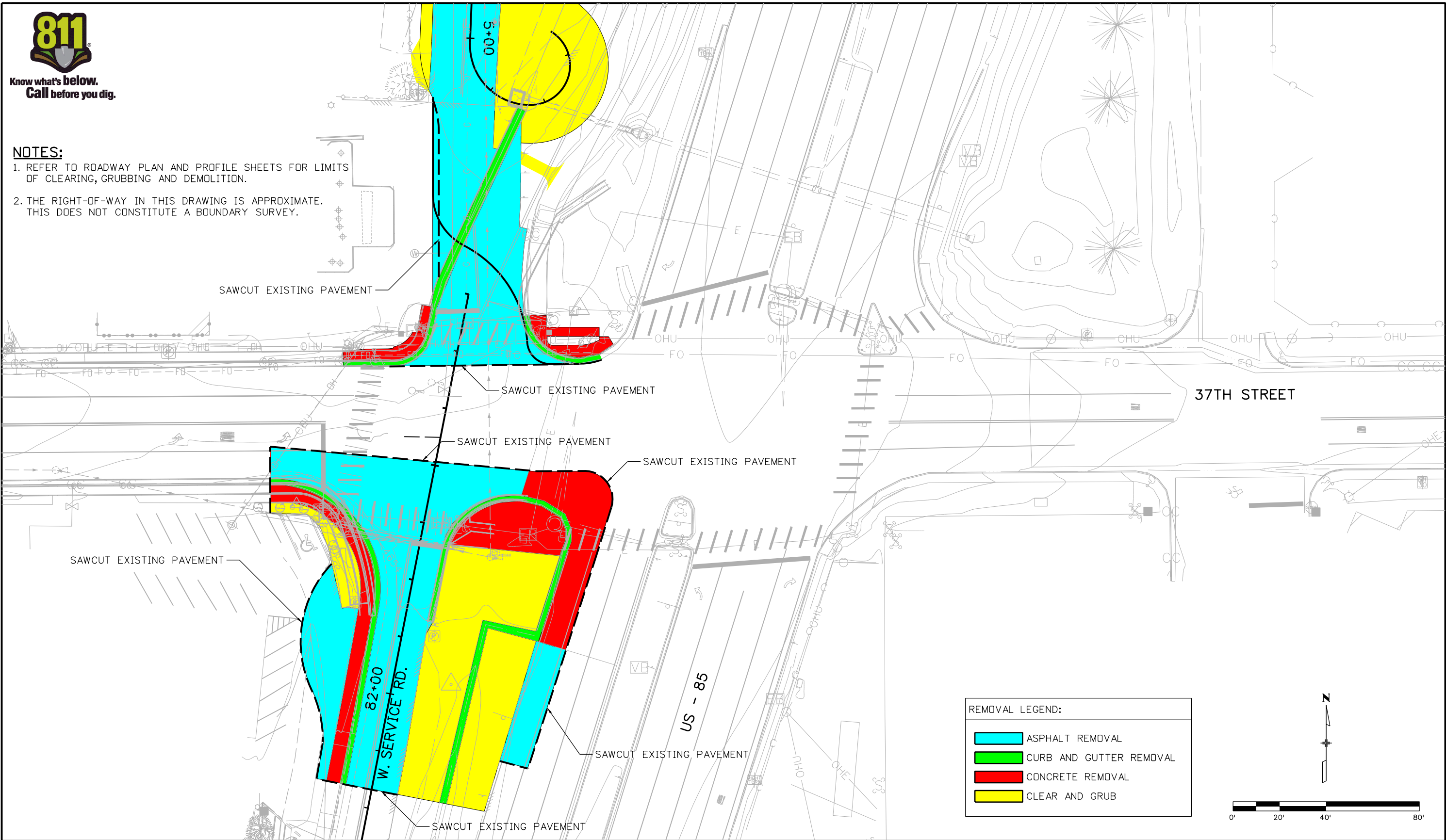
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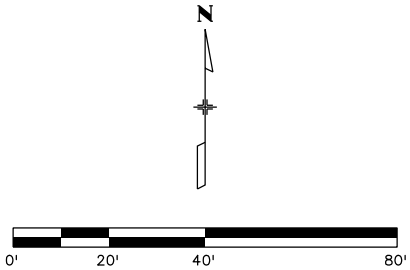
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REMOVAL LEGEND:

- ASPHALT REMOVAL
- CURB AND GUTTER REMOVAL
- CONCRETE REMOVAL
- CLEAR AND GRUB



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File Name: StVrain_DEMO_Plan04.dgn									No Revisions:		Designer: C. SAXE		Structure Numbers		STM M415-014
Horiz. Scale: 1:40 Vert. Scale: As Noted		Date:		Comments		Init.		Revised:		Detailer: C. SAXE		18404			
1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139								Void:		Sheet Subset: DEMO		Subset Sheets: 4 of 5		Sheet: 17	

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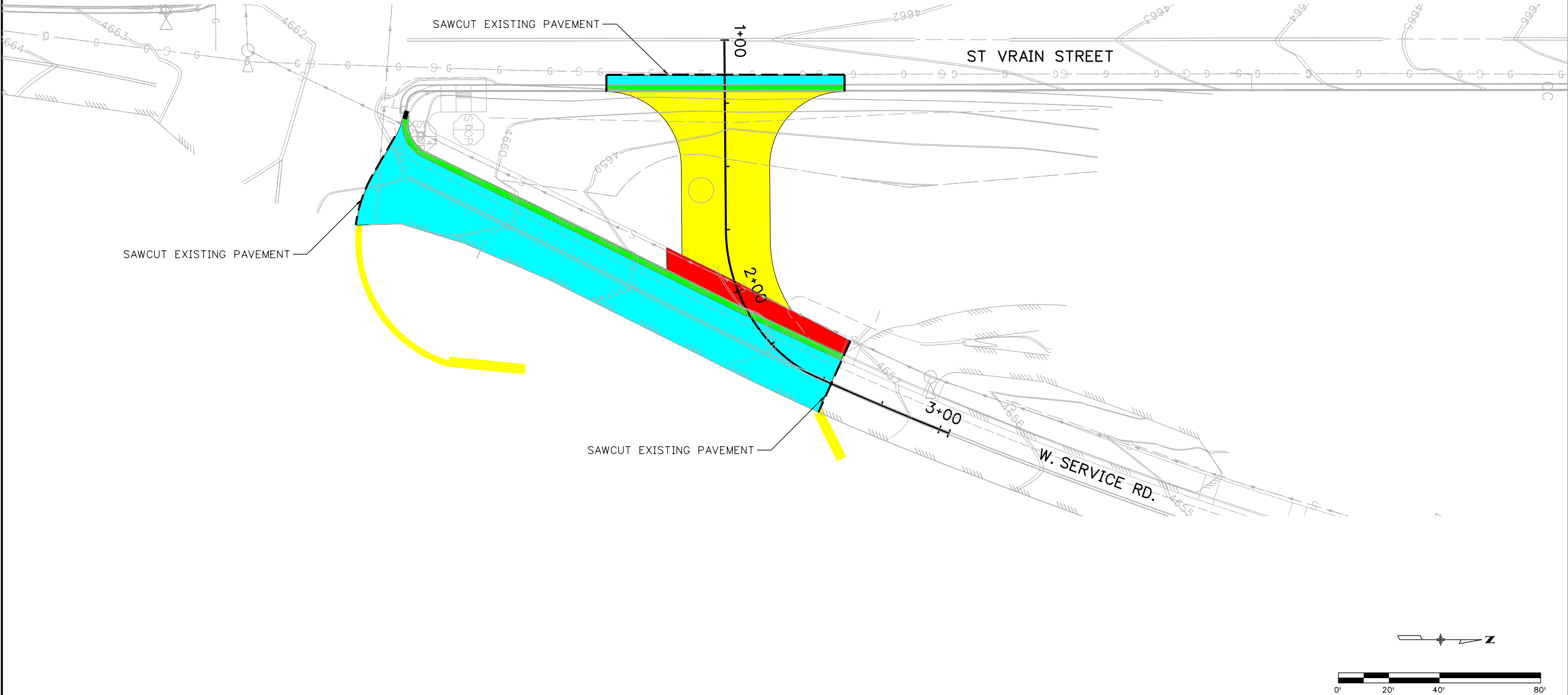
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REMOVAL LEGEND:

- ASPHALT REMOVAL
- CURB AND GUTTER REMOVAL
- CONCRETE REMOVAL
- CLEAR AND GRUB



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US 85 Access Control
at 37th Street



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**WEST ACCESS CONNECTOR
DEMO PLAN**

Designer:	C. SAXE	Structure Numbers	
Detailer:	C. SAXE		
Sheet Subset:	DEMO	Subset Sheets:	5 of 5

Project No./Code

STM M415-014

18404

Sheet: **18**

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TABULATION OF SURFACING								
LOCATION		202-05010	202-05026	304-06000	403-00720	403-33841	411-10300	412-00600
STATION		SAWING CONCRETE MATERIAL (10 INCH)	SAWING ASPHALT MATERIAL (6 INCH)	AGGREGATE BASE COURSE (CLASS 6)	HOT MIX ASPHALT (PATCHING) (ASPHALT)	HOT MIX ASPHALT (GRADING S) (100) (PG-64-22)	EMULSIFIED ASPHALT (SLOW- SETTING) 1 APPLICATION	CONCRETE PAVEMENT (6 INCH)
FROM	TO	LF	LF	TON	TON	TON	GALLON	SY
36th Street								
1+05.40	5+14.12		76	527	17	291	117	
ST. Vrain Street								
1+00.00	6+02.04		86	659	10	363	147	
Idaho Street								
1+41.00	5+89.00		197	185	5	153	93	
West Access Culdesac								
81+58.19	82+92.48	185	168	326	5	109	66	425
West Access Connector								
1+13.90	2+53.31		94	93	2	77	47	
SUBTOTALS		185	621	1790	39	993	470	425
IRREGULARITIES (10%)				179		99	47	43
TOTALS		185	621	1969	39	1093	517	468

Print Date: 5/18/2016

File Name: StVrain_DES_Tabulations_Surfacing.dgn

Horiz. Scale: 1:1

Vert. Scale: As Noted

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Sheet Revisions		
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US 85 Access Control
at 37th Street

City of
Evans, Colorado

Region 04

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37TH ACCESS TABULATION OF SURFACING		
Designer:	J. WENGER	Structure Numbers
Detailer:	J. COLIP	
Sheet Subset:	TABS	Subset Sheets: 1 of 1

Project No./Code
STM M415-014
18404
Sheet: 19

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TABULATION OF CURB, GUTTER AND SIDEWALK												
LOCATION			412-00600	608-00006	608-00010	609-21010	609-21020	609-22021	609-24004	609-24008	610-00024	REMARKS
STATION		SIDE	CONCRETE PAVEMENT (6 INCH) (DRIVEWAYS)	CONCRETE SIDEWALK (6 INCH)	CONCRETE CURB RAMPS	CURB AND GUTTER TYPE 2 (SECTION I-B)	CURB AND GUTTER TYPE 2 (SECTION II-B)	CURB, GUTTER AND SIDEWALK TYPE 2 (SECTION MS)	GUTTER TYPE 2 (4 FOOT)	GUTTER TYPE 2 (8 FOOT)	MEDIAN COVER MATERIAL (4 INCH PATTERNED CONCRETE)	
			SY	SY	SY	LF	LF	LF	LF	LF	SF	
FROM	TO											
36th Street												
1+05.40	5+14.12	LT	107	174	22		485			50		
		RT	119	127	32		313			61		
ST. Vrain Street												
1+00.00	6+02.04	LT	26	256	11		435			41		
		RT		261	11		452			41		
Idaho Street												
1+41.00	5+89.00	LT					168					
		RT	11	122			304	189				
West Access Culdesac												
81+58.19	82+92.48	LT		183	9	78	243					
		RT		58	60	38	224		14		90	
West Access Connector												
1+13.90	2+53.31	LT			14		134		47			
		RT			7		289		99			
TOTALS			263	1181	166	116	3047	189	160	193	90	

Print Date: 5/18/2016

File Name: StVrain_DES_Tabulations_Curb-Gut-Walk.dgn

Horiz. Scale: 1:1

Vert. Scale: As Noted



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Sheet Revisions

Date:	Comments	Init.

US 85 Access Control
at 37th Street



City of
Evans, Colorado



As Constructed

No Revisions:

Revised:

Void:

37TH ACCESS
TABULATION OF CURB,
GUTTER AND SIDEWALK

Designer: J. WENGER

Detailer: J. COLIP

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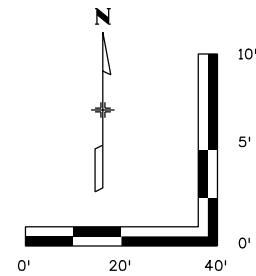
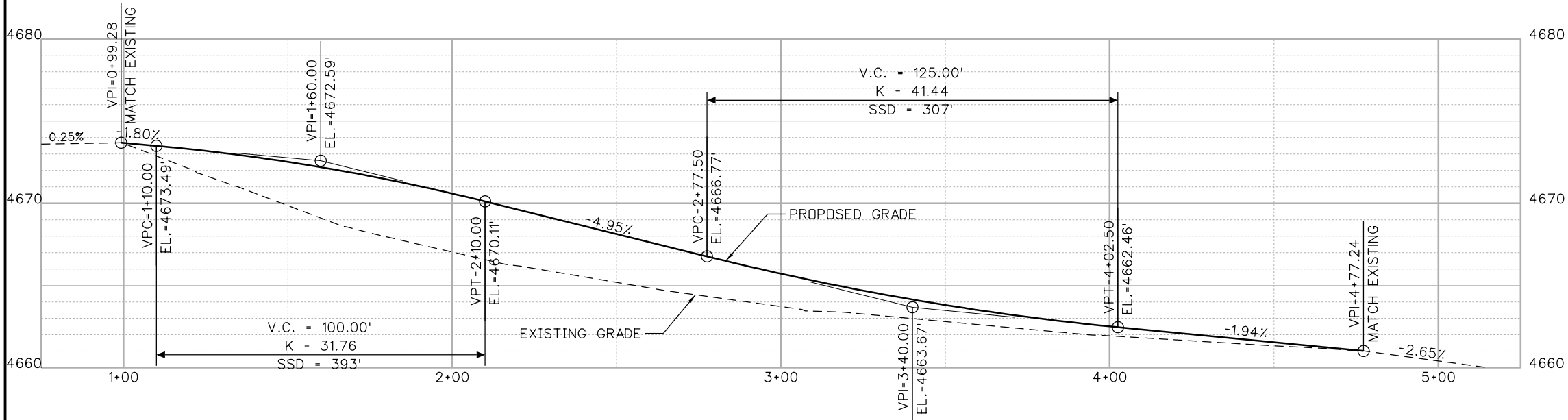
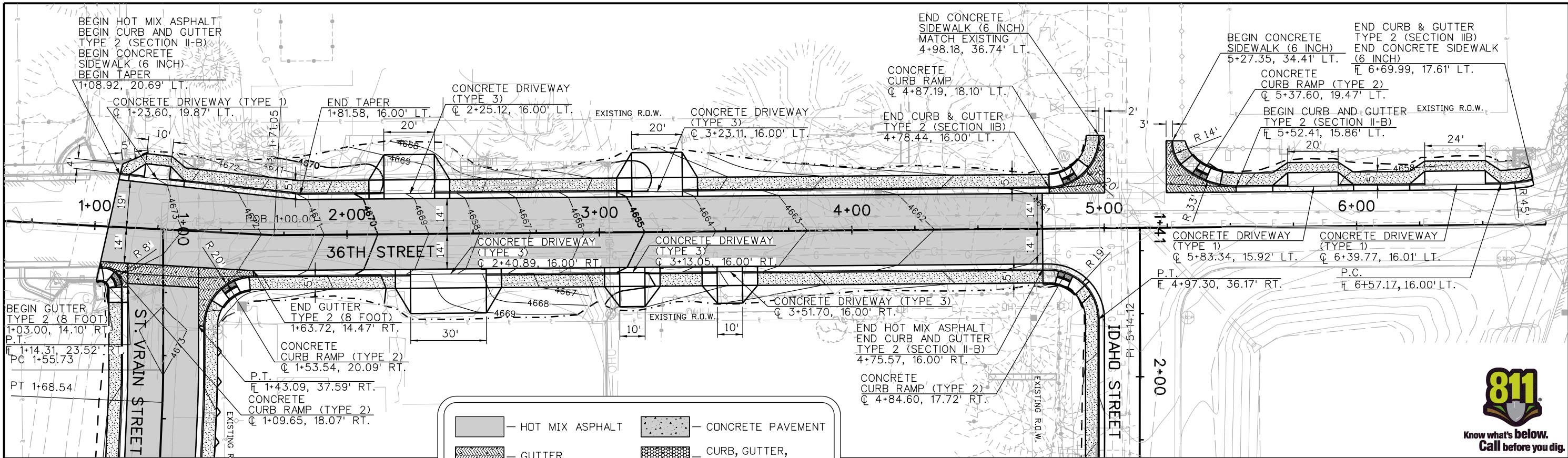
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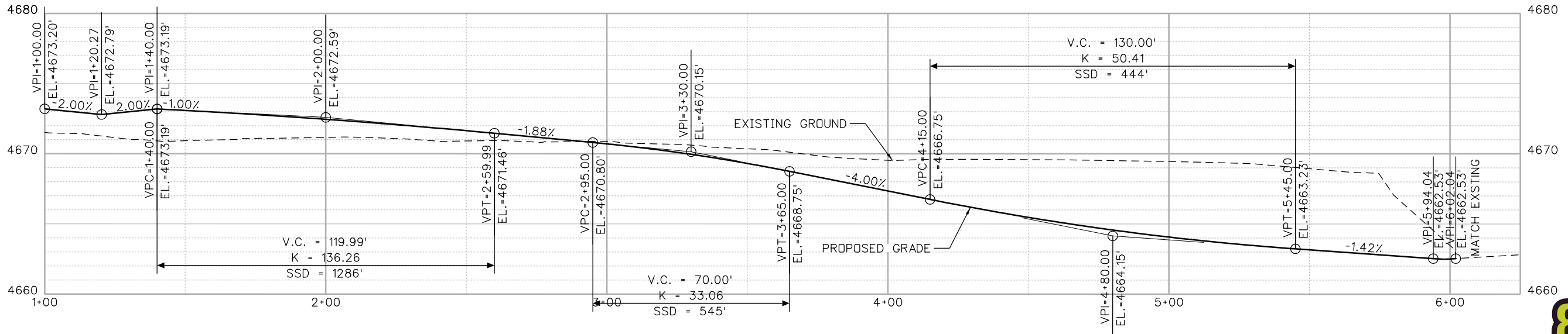
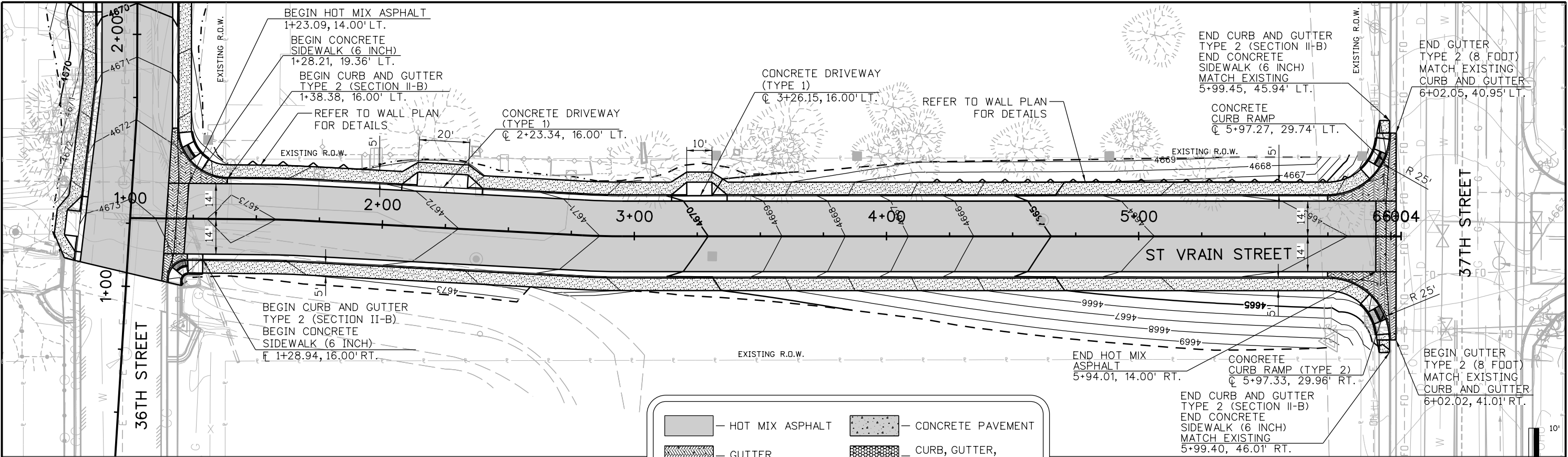
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**ST VRAIN STREET
ROADWAY PLAN AND PROFILE
STA 1+00.00 TO STA 6+04.00**

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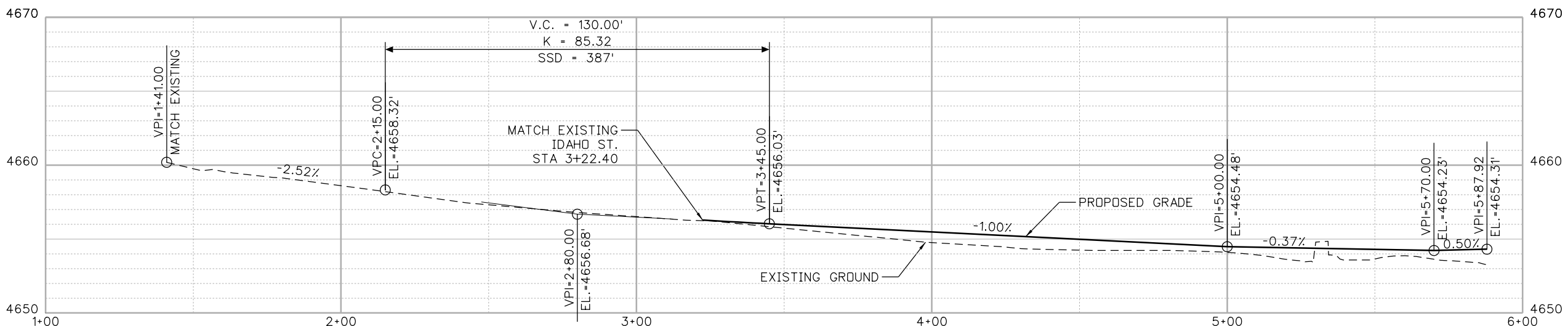
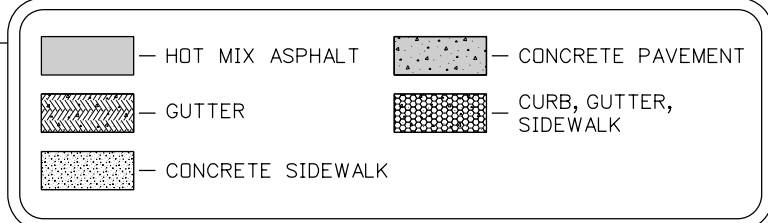
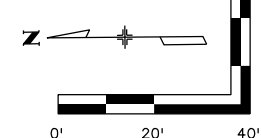
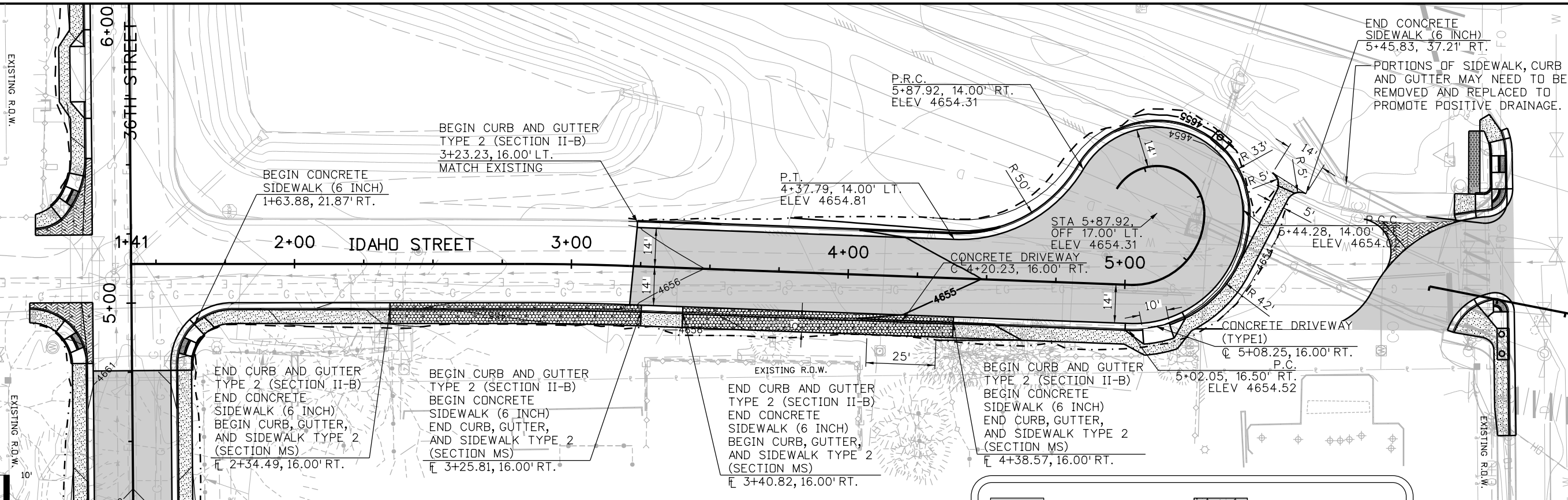
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Know what's below.
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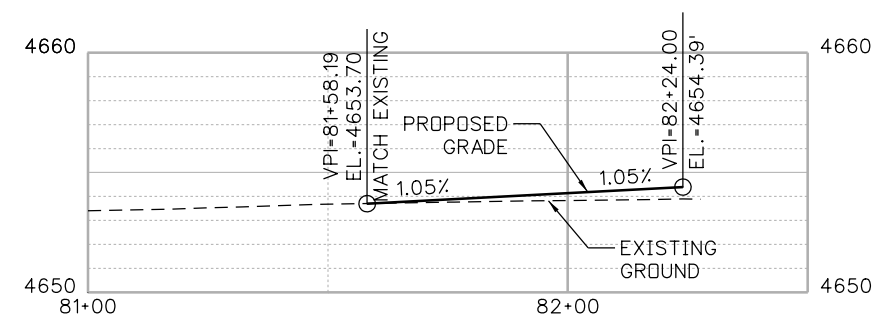
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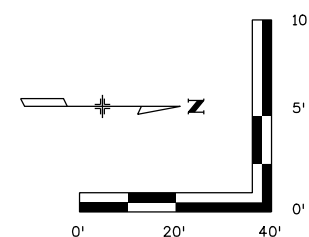


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No Revisions:		Designer: J. WENGER	Structure Numbers	STM M415-014
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TABULATION OF STRUCTURE QUANTITIES - DRAINAGE						
LOCATION			603-01245	604-19110	604-30010	REMARKS
STATION		SIDE	REINFORCED CONCRETE PIPE (CIP) 24 INCH	INLET TYPE R L 5 (10 FOOT)	MANHOLE SLAB BASE (10 FOOT)	
FROM	TO		LF	EACH	EACH	
36th Street						
1+05.40	5+14.12	LT				
		RT				
ST. Vrain Street						
1+00.00	6+02.04	LT	48	1		
		RT	21	1	2	
Idaho Street						
1+41.00	5+89.00	LT				
		RT		2		
West Access Culdesac						
81+58.19	82+92.48	LT				
		RT				
West Access Connector						
1+13.90	2+53.31	LT				
		RT				
TOTALS			69	4	2	

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File Name: StVrain_DES_Tabulations_Drainage_Str.dgn
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City of
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TABULATION OF
DRAINAGE STRUCTURES

Designer: J. WENGER

Detailer: J. COLIP

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Structure
Numbers

Subset Sheets: 1 of 1

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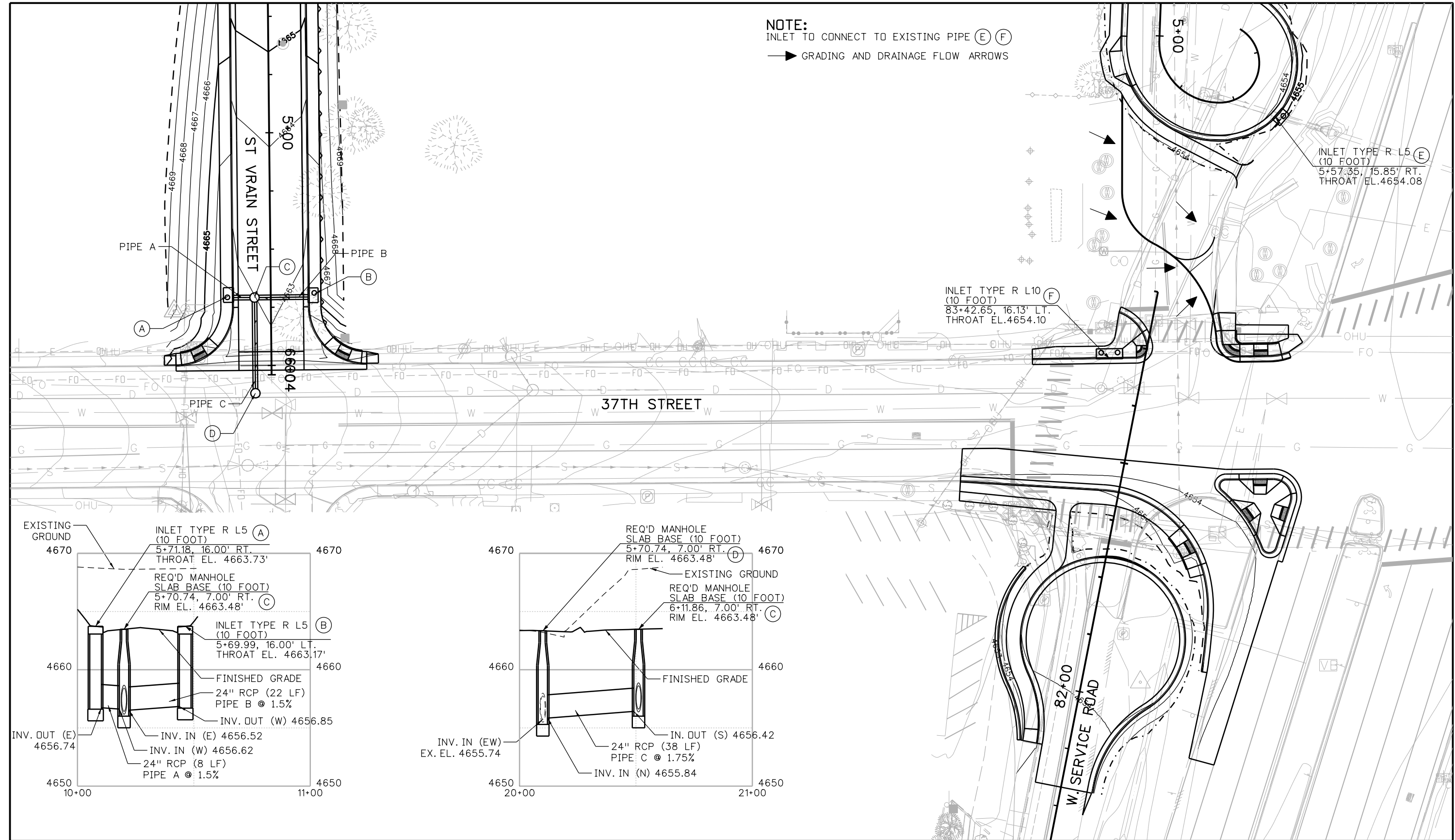
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1. SITE DESCRIPTION

ADDITIONAL INFORMATION FOR PERMITTED PROJECTS FOR INFORMATION ONLY TO FULFILL THE CDPS-SCP (COLORADO DISCHARGE PERMIT SYSTEM - STORMWATER CONSTRUCTION PERMIT)

- A. PROJECT SITE DESCRIPTION: US 85 ACCESS CONTROL AT 37TH STREET WITHIN THE CITY OF EVANS ROW INCLUDE HOT MIX ASPHALT PAVING AND PATCHING, SIDEWALK, CURB AND GUTTER, DRAINAGE, EXCAVATION, PAVEMENT MARKING, TRAFFIC SIGNALS AND CONTROL AND EROSION CONTROL.
- B. PROPOSED SEQUENCING FOR MAJOR ACTIVITIES: EROSION CONTROL, EXCAVATION AND GRADING, INLETS, CURB GUTTER AND SIDEWALK, PAVING (ROADWAY), SIGNALS SIGNING AND STRIPING.
- C. AREAS OF DISTURBANCE:
1. TOTAL AREA OF CONSTRUCTION SITE: 2.2 AC.
2. TOTAL AREA OF DISTURBANCE: 1.6 AC.
3. ACREAGE OF SEEDING: 0.75
- D. EXISTING SOIL DATA: SCS HYDROLOGIC SOIL GROUP D
- E. EXISTING VEGETATION, INCLUDING PERCENT COVER: NA

- F. POTENTIAL POLLUTANTS SOURCES:
VEHICLE FUELING AND MAINTENANCE
STORAGE OF FERTILIZERS, CHEMICALS, ETC.: FORM OIL, COATINGS, EQUIPMENT PRODUCTS, ETC.
WASTE PILES OF CONTAINERS: TRASH DUMPSTERS FOR REFUSE
EQUIPMENT MAINTENANCE: REPAIRS ON AN AS NEEDED BASIS
EMULSIFIED ASPHALT
CONCRETE WASHOUT
- G. RECEIVING WATER:
1. OUTFALL LOCATIONS: DETENTION POND NW CORNER OF HWY 85 AND 37TH STREET
2. NAMES OF RECEIVING WATER(S) ON SITE AND THE ULTIMATE RECEIVING WATER: SOUTH PLATTE RIVER
3. DISTANCE ULTIMATE RECEIVING WATER IS FROM PROJECT: LOCATED AT SOUTHERN END OF PROJECT
4. DOES THE RECEIVING WATER HAVE AN APPROVED TMDL: NO
- H. ALLOWABLE NON-STORMWATER DISCHARGES:
1. GROUNDWATER AND STORMWATER DEWATERING: DISCHARGES TO THE GROUND OF WATER FROM CONSTRUCTION DEWATERING ACTIVITIES MAY BE AUTHORIZED PROVIDED THAT:
A. THE SOURCE IS GROUNDWATER AND/OR GROUNDWATER COMBINED WITH STORMWATER THAT DOES NOT CONTAIN POLLUTANTS
B. THE SOURCE AND BMPS ARE IDENTIFIED IN THE SWMP
C. DISCHARGES DO NOT LEAVE THE SITE AS SURFACE RUNOFF OR TO SURFACE WATERS
2. IF DISCHARGES DO NOT MEET THE ABOVE CRITERIA A SEPARATE PERMIT FROM THE DEPARTMENT OF HEALTH WILL BE REQUIRED. CONTAMINATED GROUNDWATER REQUIRING COVERAGE UNDER A SEPARATE PERMIT MAY INCLUDE GROUNDWATER CONTAMINATED WITH POLLUTANTS FROM A LANDFILL, MINING ACTIVITIES, INDUSTRIAL POLLUTANT PLUMES, UNDERGROUND STORAGE TANK, ETC.
- I. ENVIRONMENTAL IMPACTS:
1. WETLAND IMPACTS: NO
2. STREAM IMPACTS: NO
3. THREATENED AND ENDANGERED SPECIES: NO

J. ENVIRONMENTAL WALKTHROUGH
ONCE CONSTRUCTION HAS BEEN COMPLETED THE CDOT PROJECT MANAGER, THE CDOT REGION 4 WATER POLLUTION CONTROL MANAGER, THE LOCAL AGENCY PROJECT MANAGER AND THE CONTRACTOR WILL CONDUCT A WALKTHROUGH OF THE PROJECT SITE. THE PURPOSE OF THE WALKTHROUGH IS TO IDENTIFY ANY AREAS WHERE BMPS NEED TO BE REMOVED FROM CDOT ROW OR MAINTAINED. PLEASE CONTACT (970)350-2264 AT LEAST 7 DAYS PRIOR TO FINAL ACCEPTANCE TO SCHEDULE THE WALKTHROUGH.

2. SITE MAP COMPONENTS:

PRE-CONSTRUCTION

- A. CONSTRUCTION SITE BOUNDARIES (SEE TITLE SHEET)
- B. THE LIMITS OF CONSTRUCTION DISTURBANCE (SEE CUT/FILL LIMITS ON PLANS).
- C. ALL AREAS OF GROUND SURFACE DISTURBANCE (SEE PLAN, PROFILE AND CROSS SECTIONS)
- D. AREAS OF CUT AND FILL (SEE PLAN AND CROSS SECTIONS)
- E. LOCATION OF ALL STRUCTURAL BMPS IDENTIFIED IN THE SWMP (SEE SWMP SITE MAPS)
- F. LOCATION OF NON-STRUCTURAL BMPS AS APPLICABLE IN THE SWMP (SEE SWMP TEMPLATE, ITEM 4(C))
- G. SPRINGS, STREAMS, WETLANDS AND OTHER SURFACE WATER (SEE TITLE SHEET AND SWMP SITE MAPS)
- H. PROTECTION OF TREES, SHRUBS, CULTURAL RESOURCES AND MATURE VEGETATION (COORDINATION OF REMOVAL WITH PROJECT ENGINEER)

3. SWMP ADMINSTRATOR FOR DESIGN AND CONSTRUCTION:

DESIGN: JASON WENGER, (303)764-1520 TITLE: PROJECT MANAGER
CONSTRUCTION: TITLE: _____

4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES

THE CONTRACTOR SHALL PERFORM THE FOLLOWING:

- A. DESIGNATE A SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR (TO BE FILLED OUT AT TIME OF CONSTRUCTION; DESIGNATE THE INDIVIDUAL(S) RESPONSIBLE FOR IMPLEMENTING, MAINTAINING AND REVISING SWMP, INCLUDING THE TITLE AND CONTACT INFORMATION. THE ACTIVITIES AND RESPONSIBILITIES OF THE ADMINISTRATOR SHALL ADDRESS ALL ASPECTS OF THE PROJECT'S SWMP.)
SWMP ECS OR ADMINISTRATOR FOR CONSTRUCTION: _____ TITLE: _____
- B. POTENTIAL POLLUTANT SOURCES
EVALUATE, IDENTIFY AND DESCRIBE ALL POTENTIAL SOURCES OF POLLUTANTS AT THE SITE IN ACCORDANCE WITH SUBSECTION 107.25 AND PLACE IN THE SWMP NOTEBOOK. ALL BMP'S RELATED TO POTENTIAL POLLUTANTS SHALL BE SHOWN ON THE SWMP SITE MAP BY THE CONTRACTOR'S ECS.
- C. BEST MANAGEMENT PRACTICES (BMPs) FOR STORMWATER POLLUTION PREVENTION

PHASED BMP IMPLEMENTATION

DURING DESIGN: FIELDS ARE MARKED WHEN USED IN THE SWMP. DURING CONSTRUCTION: THE ECS SHALL UPDATE THE CHECKED BOXES TO MATCH SITE CONDITIONS.

STRUCTURAL BMP PRACTICES FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO:

BMP	TYPE OF CONTROL	BMP AS DESIGNED	IN USE - SITE	FIRST CONSTRUCTION ACTIVITIES	DURING CONSTRUCTION	INTERIM/FINAL STABILIZATION
EARTH BERM/DIVERSION	EROSION					
CHECK DAMS	SEDIMENT					
SILT FENCE	SEDIMENT			X	X	
EROSION LOGS	EROSION			X	X	
TEMPORARY SEDIMENT TRAP/BASIN	SEDIMENT					
PERMANENT SEDIMENT TRAP/BASIN	SEDIMENT					
EMBANKMENT PROTECTOR	EROSION					
INLET PROTECTION	SEDIMENT			X	X	
OUTLET PROTECTION	EROSION					
CONCRETE WASHOUTS	POLLUTION PREVENTION				X	
STABILIZED CONSTRUCTION ENTRANCE	SEDIMENT			X	X	
DEWATERING	SEDIMENT					
TEMPORARY STREAM CROSSING	POLLUTION PREVENTION					
TEMPORARY SLOPE DRAINS	EROSION				X	
OTHER						

NON-STRUCTURAL BMP PRACTICES FOR EROSION AND SEDIMENT CONTROL; PRACTICES MAY INCLUDE, BUT ARE NOT LIMITED TO: (IF BMPS ARE PROPOSED IN DESIGN, DESCRIBE AND LOCATE, AS PRACTICABLE, ALL NON-STRUCTURAL PRACTICES IMPLEMENTED AT THE SITE. MUST INCLUDE INTERIM AND PERMANENT STABILIZATION PRACTICES, AND SITE SPECIFIC SCHEDULING IMPLEMENTATION OF THE PRACTICE.

BMP	TYPE OF CONTROL	BMP AS DESIGNED	IN USE - SITE	FIRST CONSTRUCTION ACTIVITIES	DURING CONSTRUCTION	INTERIM/FINAL STABILIZATION
SURFACE ROUGHENING/GRADING TECHNIQUES	EROSION				X	
SEEDING PERMANENT	EROSION					
SEEDING TEMPORARY	EROSION					
MULCH/MULCH TACKIFIER	EROSION					
SOIL BINDER	EROSION					
SOIL RETENTION BLANKET	EROSION					
VEGETATIVE BUFFER STRIPS	EROSION					
PROTECTION OF TREES	EROSION				X	
PRESERVATION OF MATURE VEGETATION	EROSION					
OTHER						

EROSION CONTROL DEVICES ARE USED TO LIMIT THE AMOUNT OF EROSION ON SITE. SEDIMENT CONTROL DEVICES ARE DESIGNED TO CAPTURE SEDIMENT ON THE PROJECT SITE. POLLUTION PREVENTION ARE BMPS TO PREVENT CONTAMINATION OF STORMWATER AND BMP LOCATIONS ARE INDICATED ON THE SITE MAP. BMP LOCATIONS ARE INDICATED ON THE SITE MAP. BMP INSTALLATION DETAILS AND GENERAL NARRATIVES ARE IN THE SWMP NOTEBOOK.

- D. OFFSITE DRAINAGE (RUN ON WATER)
1. DESCRIBE AND RECORD BMPS ON THE SWMP SITE MAP THAT HAVE BEEN IMPLEMENTED TO ADDRESS RUN-ON WATER IN ACCORDANCE WITH SUBSECTION 208.03.
- E. STABILIZED CONSTRUCTION ENTRANCE/VEHICLE TRACKING CONTROL
1. BMPS SHALL BE IMPLEMENTED IN ACCORDANCE WITH SUBSECTION 208.04.

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File Name: StVrain_StormWater_01.dgn			Date:	Comments	Init.		No Revisions:		STM M415-014				
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4. STORMWATER MANAGEMENT CONTROLS FIRST CONSTRUCTION ACTIVITIES (CONT.)

F. PERIMETER CONTROL

- 1. PERIMETER CONTROL SHALL BE ESTABLISHED AS THE FIRST ITEM ON THE SWMP TO PREVENT THE POTENTIAL FOR POLLUTANTS LEAVING THE CONSTRUCTION SITE BOUNDARIES, ENTERING THE STORMWATER DRAINAGE SYSTEM, OR DISCHARGING TO STATE WATERS.
- 2. PERIMETER CONTROL MAY CONSIST OF VEGETATION BUFFERS, BERMS, SILT FENCE, EROSION LOGS, EXISTING LANDFORMS, OR OTHER BMPS AS APPROVED.
- 3. PERIMETER CONTROL SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04.

G. WATER QUALITY/CDPS INACTIVATION

IT WILL BE THE RESPONSIBILITY OF THE LOCAL AGENCY AND THE CONTRACTOR TO MAINTAIN EXISTING BMPS AND ENSURE THEIR COMPLETE REMOVAL FROM CDOT ROW ONCE 70% OF PRE-EXISTING VEGETATION HAS BEEN RE-ESTABLISHED.

5. DURING CONSTRUCTION

RESPONSIBILITIES OF THE SWMP ADMINISTRATOR/EROSION CONTROL SUPERVISOR DURING CONSTRUCTION THE SWMP SHOULD BE CONSIDERED A "LIVING DOCUMENT" THAT IS CONTINUOUSLY REVIEWED AND MODIFIED. DURING CONSTRUCTION, THE FOLLOWING ITEMS SHALL BE ADDED, UPDATED, OR AMENDED AS NEEDED BY THE SWMP ADMINISTRATOR/ EROSION CONTROL SUPERVISOR (ECS) IN ACCORDANCE WITH SECTION 208.

- A. MATERIALS HANDLING AND SPILL PREVENTION
- B. STOCKPILE MANAGEMENT
- C. GRADING AND SLOPE STABILIZATION
- D. SURFACE ROUGHENING
- E. VEHICLE TRACKING
- F. TEMPORARY STABILIZATION
- G. CONCRETE WASHOUT

- 1. CONCRETE WASH OUT WATER OR WASTE FROM FIELD LABORATORIES AND PAVING EQUIPMENT SHALL BE CONTAINED IN ACCORDANCE WITH SUBSECTION 208.05.

- H. SAW CUTTING
- I. NEW INLET/CULVERT PROTECTION
- J. STREET CLEANING

6. INSPECTIONS

- A. INSPECTIONS SHALL BE IN ACCORDANCE WITH SUBSECTION 208.03 (C).

7. BMP MAINTENANCE

- A. MAINTENANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.04 (E).

8. RECORD KEEPING

- A. RECORDS SHALL BE KEPT IN ACCORDANCE WITH SUBSECTION 208.03 (C).

9. PRIOR TO FINAL ACCEPTANCE

- A. FINAL ACCEPTANCE SHALL BE IN ACCORDANCE WITH SUBSECTION 208.061.

10. TABULATION OF STORMWATER QUANTITIES

Pay Item Code	Description	Pay Unit	Quantity
208-00002	Erosion Log (12 Inch)	LF	200
208-00011	Erosion Bales (Weed Free)	Each	*20
208-00020	Silt Fence	LF	2000
208-00034	Gravel Bag	LF	100
208-00045	Concrete Washout Structure	Each	1
208-00070	Vehicle Tracking Pad	Each	2
208-00103	Removal and Disposal of Sediment (Labor)	Hour	10
208-00105	Removal and Disposal of Sediment (Equipment)	Hour	10
208-00106	Sweeping (Sediment Removal)	Hour	30
208-00107	Removal of Trash	Hour	20
208-00206	Erosion Control Supervisor	Day	60
212-00006	Seeding (Native)	Acre	0.75
213-00012	Spray-on Mulch Blanket	LB	150
213-00061	Mulch Tackifier	LB	150

*As directed


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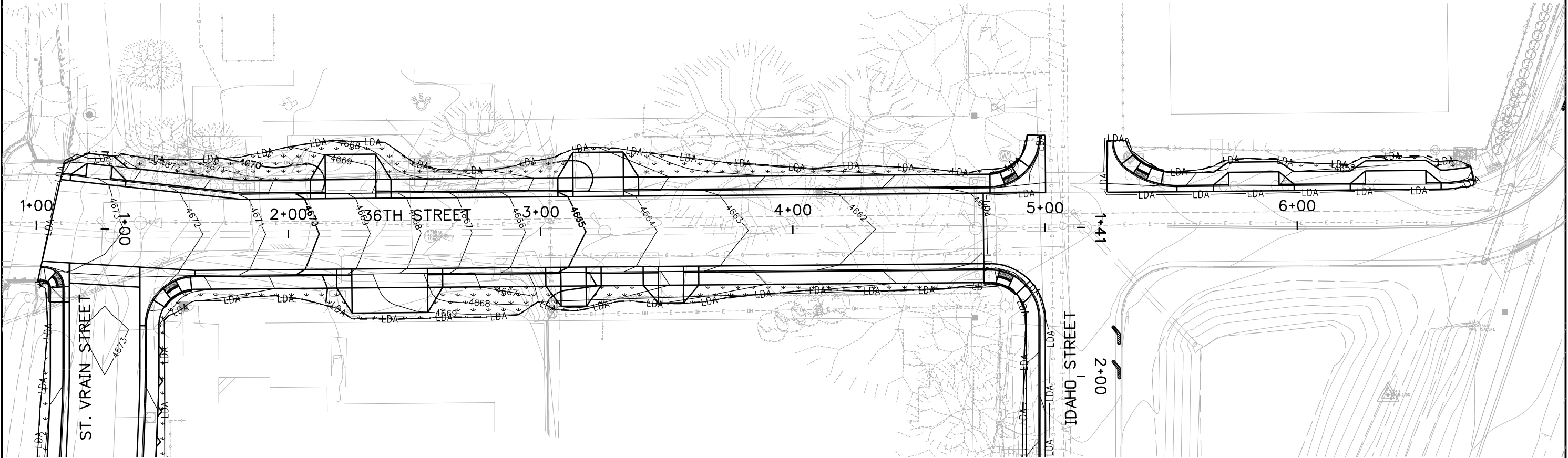
BMP	TYPE OF CONTROL	NARRATIVE/USE
EARTH BERMS/DIVERSIONS	EROSION	A TEMPORARY FEATURE, 1. USED ALONG THE TOP OF EDGES OF CUTS AND FILLS TO PROTECT THE EMBANKMENT; OR 2. USED TO SLOW AND FILTER FLOWS AWAY FROM AN OPEN AREA OR SLOPE.
CHECK DAM	EROSION	A TEMPORARY FEATURE, USED FOR PURPOSES OF REDUCING THE VELOCITY OF CONCENTRATED FLOWS TO REDUCE EROSION IN SWALES OR DITCHES. CHECK DAMS ARE TYPICALLY CONSTRUCTED OUT OF ROCK, EROSION BALES, EROSION LOGS, SILT DIKES, OR SILT BERMS. THEY ARE MOST EFFECTIVE WHEN USED WITH OTHER STORMWATER, EROSION, AND SEDIMENT-CONTROL MEASURES.
SILT FENCE	SEDIMENT	A TEMPORARY FEATURE, 1. USED TO INTERCEPT SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION; OR 2. USED TO FILTER SHEET FLOW; OR 3. USED AROUND DROP INLETS AS APPLICABLE. GENERALLY PLACED A FEW FEET AWAY FROM THE TOE OF SLOPES, IN TRANSITION AREAS BETWEEN CUTS & FILLS OR BETWEEN CONSTRUCTION AREAS AND STREAMS. INSTALL ALONG CONTOURS & AWAY FROM CONCENTRATED FLOW AREAS.
EROSION LOGS	EROSION	A TEMPORARY FEATURE, 1. USED TO REDUCE RUNOFF VELOCITY IN DITCHES OR SWALES FOR EROSION CONTROL UNTIL VEGETATIVE COVER IS ESTABLISHED; OR 2. USED UPSTREAM OF CURB INLETS TO FILTER SEDIMENT LADEN RUNOFF.
TEMPORARY SEDIMENT TRAP/BASIN	SEDIMENT	A TEMPORARY FEATURE, 1. USED TO DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS TO ALLOW SEDIMENTS TO SETTLE OUT.
PERMANENT SEDIMENT TRAP/BASIN	SEDIMENT	USED TO DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS TO ALLOW SEDIMENTS TO SETTLE OUT.
EMBANKMENT PROTECTOR	EROSION	A TEMPORARY FEATURE, USED AT LOW POINTS ALONG FILL SLOPES. IT IS A FLEXIBLE CONDUIT FOR STORMWATER THAT EXTENDS THE LENGTH OF A DISTURBED SLOPE TO DIVERT STORMWATER AND SERVE AS A TEMPORARY OUTLET. EMBANKMENT PROTECTORS, ALSO CALLED A TEMPORARY SLOPE DRAIN, CONVEY RUNOFF WITHOUT CAUSING EROSION ON OR AT THE BOTTOM OF THE SLOPE AND IS USED UNTIL SLOPES ARE PERMANENTLY STABILIZED.
INLET PROTECTION/RIGID	SEDIMENT	A TEMPORARY FEATURE, USED TO PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. INLET PROTECTION IS IMPLEMENTED AT EXISTING INLETS PRIOR TO CONSTRUCTION.
OUTLET PROTECTION	EROSION	USED TO PROTECT CULVERT AND SWALE OUTLETS FROM EROSION DUE TO STORMWATER FLOWS.
CONCRETE WASHOUT STRUCTURE	POLLUTION PREVENTION	A TEMPORARY FEATURE, USED TO CONTAIN CONCRETE & LIQUIDS FROM RINSED CHUTES OF CONCRETE MIXERS & HOPPERS OR CONCRETE PUMPS. ALL WASHOUT'S CONSOLIDATE SOLIDS FOR EASIER DISPOSAL & PREVENT RUNOFF OF LIQUIDS. THE WASH WATER IS ALKALINE & CONTAINS HIGH LEVELS OF CHROMIUM, WHICH CAN LEACH INTO THE GROUND & CONTAMINATE GROUNDWATER. WASHOUT'S CAN BE CONSTRUCTED OR READY-MADE.
STABILIZED CONSTRUCTION ENTRANCE	SEDIMENT	A TEMPORARY FEATURE, NO. 1 USED TO PREVENT SEDIMENT FROM LEAVING THE SITE ON VEHICLE TIRES AND TRACKING ONTO THE ROAD.
DEWATERING	SEDIMENT	A TEMPORARY FEATURE, USED TO SETTLE AND FILTER SEDIMENT-LADEN WATER. A DEWATERING PERMIT IS REQUIRED FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT.
TEMPORARY STREAM CROSSING	POLLUTION PREVENTION	A TEMPORARY FEATURE USED TO PREVENT CONSTRUCTION EQUIPMENT FROM DAMAGING THE WATERWAY, BLOCKING FISH MIGRATION, AND TRACKING SEDIMENT AND OTHER POLLUTANTS INTO THE WATERWAY.
SURFACE ROUGHING/GRADING TECHNIQUES	EROSION	SURFACE ROUGHENING IS USED AS A TEMPORARY BMP TO REDUCE THE SPEED OF RUNOFF, INCREASE INFILTRATION, REDUCE EROSION, TRAP SEDIMENT, AND PREPARE THE SOIL FOR SEEDING AND PLANTING BY CAPTURING MOISTURE FOR SEED.
SEEDING PERMANENT	EROSION	SEEDING IS USED TO CONTROL RUNOFF AND EROSION ON DISTURBED AREAS BY ESTABLISHING VEGETATIVE COVER. IT REDUCES EROSION AND SEDIMENT LOSS AND PROVIDES PERMANENT STABILIZATION.
SEEDING TEMPORARY	EROSION	USED FOR TEMPORARY COVER WHEN A DISTURBED AREA (I.E., DETOUR SLOPES) WILL BE LEFT IN PLACE FOR MORE THAN 3 MONTHS.
MULCHING	EROSION	MULCHING IS AN EROSION CONTROL PRACTICE THAT USES CERTIFIED WEED FREE HAY OR STRAW FOR TEMPORARY STABILIZATION OF SLOPES AND EXPOSED AREAS WHEN SEEDING CANNOT OCCUR DUE TO SEASONAL CONSTRAINTS. MULCHING CAN ALSO BE USED FOR NEWLY SEEDED AREAS.
MULCH TACKIFIER	EROSION	MULCH TACKIFIER USED OVER MULCH STABILIZES AREAS WHERE VEGETATION CANNOT BE ESTABLISHED AND PROVIDES IMMEDIATE PROTECTION. IT IS ALSO USED TO HOLD MULCH IN PLACE AND MINIMIZE EROSION FROM RUNOFF AND WIND.
SOIL BINDERS	EROSION	SOIL BINDERS, ALSO KNOWN AS CHEMICAL STABILIZERS, PROVIDE TEMPORARY SOIL STABILIZATION. SOIL BINDERS ARE SPRAYED ONTO THE SURFACE OF EXPOSED SOILS TO HOLD THE SOIL IN PLACE AND MINIMIZE EROSION FROM RUNOFF AND WIND. SOIL BINDERS ARE USED TO TEMPORARILY STABILIZE SOILS IN STOCKPILES, BERMS, OR WHEN SLOPES CANNOT BE SEEDED DUE TO SEASONAL CONSTRAINTS.
SOIL RETENTION BLANKETS	EROSION	USED ON STEEP SLOPES AND IN DISTURBED AREAS (OFTEN SANDY SOILS) TO CONTROL EROSION, RETAIN SEDIMENT RESULTING FROM SHEET-FLOW RUNOFF, AND PROTECT NEWLY SEEDED AREAS. WHEN PROPERLY APPLIED, SOIL RETENTION BLANKETS COMPLETELY COVER THE GROUND SURFACE. APPLIED TO SLOPES 3:1 TO 2:1 OR STEEPER DEPENDING ON SOIL TYPE.
VEGETATIVE BUFFER STRIPS	SEDIMENT	A STRUCTURAL BMP USED TO FILTER POLLUTANTS AS STORMWATER RUNOFF MOVES TO A SWALE, STREAM, OR OTHER FLOW AREA. THE FLOWS ARE DISPERSED OVER THE BUFFER ZONE WHERE SEDIMENTS AND OTHER POLLUTANTS ARE FILTERED OUT BEFORE THE FLOWS REACH THE NATURAL DRAINAGE WAY. THIS BMP PROTECTS STATE WATERS FROM HIGH CONCENTRATIONS OF SEDIMENT IN RUNOFF.
PROTECTION OF TREES	EROSION	TREE ROOTS AND LEAVES PREVENT EROSION, ROOTS HELP HOLD THE SOIL IN PLACE, AND LEAVES INTERCEPT AND BREAK UP RAINDROPS WHICH REDUCES THEIR VELOCITY AND EROSIIVE FORCE.
PRESERVATION OF MATURE VEGETATION	EROSION	THIS PREVENTS EROSION DUE TO VEGETATIVE COVER OF SOIL AND ROOTS HOLDING THE SOIL IN PLACE, DEAD LEAVES AND PLANT PARTS CAN FORM A MULCH COVERING BARE SOIL.
STORM DRAIN INLET	SEDIMENT	A TEMPORARY FEATURE, USED TO PREVENT SOIL AND DEBRIS FROM ENTERING STORM DRAIN INLETS. INLET PROTECTION IS IMPLEMENTED AT EXISTING INLETS PRIOR TO CONSTRUCTION.

NOTE:
NARRATIVES TAKEN FROM CHAPTER 5 OF THE "CDOT'S EROSION CONTROL AND STORMWATER QUALITY GUIDE" MANUAL 2002
AND THE NEW "EROSION CONTROL AND STORMWATER QUALITY FIELD GUIDE" VERSION 6

Print Date: 5/18/2016		<div>0000</div>	Sheet Revisions			<div>US 85 Access Control at 37th Street</div> <div>City of Evans, Colorado</div> <div>CDOT Region 04</div>	As Constructed		STORMWATER MANAGEMENT PLAN		Project No./Code	
File Name: StVrain_StormWater_03.dgn CMS			Date:	Comments	Init.		No Revisions:				STM M415-014	
Horiz. Scale: 1:1 Vert. Scale: As Noted ASP							Revised:		Designer: J. WENGER Detailer: J. JAHNKE		18404	
<div>1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139</div>							Void:		Sheet Subset: SWMP Subset Sheets: 3 of 3		Sheet: 30	



Know what's below.
Call before you dig.

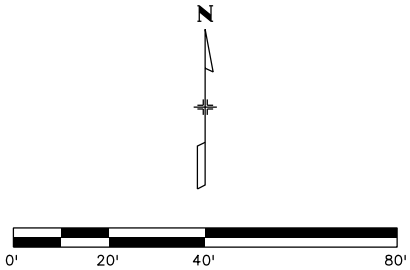


LEGEND

- LDA - LIMITS OF DISTURBED AREA
- MULCH AND SEEDING
- GRAVEL BAG
- TOE OF FILL
- TOP OF CUT

NOTES:

- REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR LIMITS OF CLEARING, GRUBBING AND DEMOLITION.
- PERIMETER CONTROL FOR THIS PROJECT IS AS FOLLOWS, INCLUDING BUT NOT LIMITED TO: EXISTING PAVEMENT AND EXISTING VEGETATION
- VEHICLE TRACKING PADS SHALL BE PLACED AT THE BEGINNING OF FULL DEPTH PAVEMENT CONSTRUCTION FOR EACH PHASE AND AS DIRECTED BY THE ENGINEER.
- CONCRETE WASHOUT STRUCTURES SHALL BE PALCED FOR EACH PHASE AS DIRECTED BY THE ENGINEER.



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Date:	Comments	Init.	

US 85 Access Control
at 37th Street



As Constructed

No Revisions:

Revised:

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36TH STREET
SWMP PLAN

Designer:	C. SAXE	Structure Numbers	
Detailer:	C. SAXE		
Sheet Subset:	SWMP	Subset Sheets:	1 of 5

Project No./Code

STM M415-014

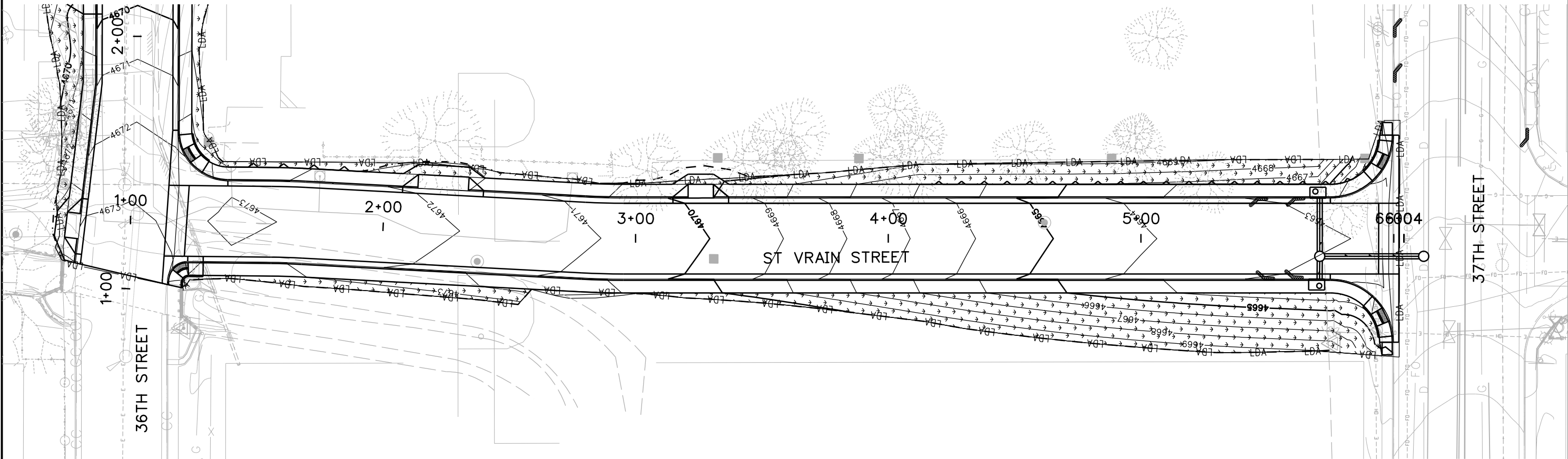
18404

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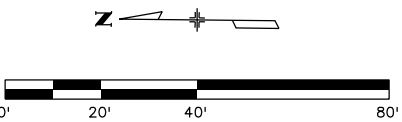


LEGEND

- LDA - LIMITS OF DISTURBED AREA
- TOE OF FILL
- MULCH AND SEEDING
- TOP OF CUT
- GRAVEL BAG

NOTES:

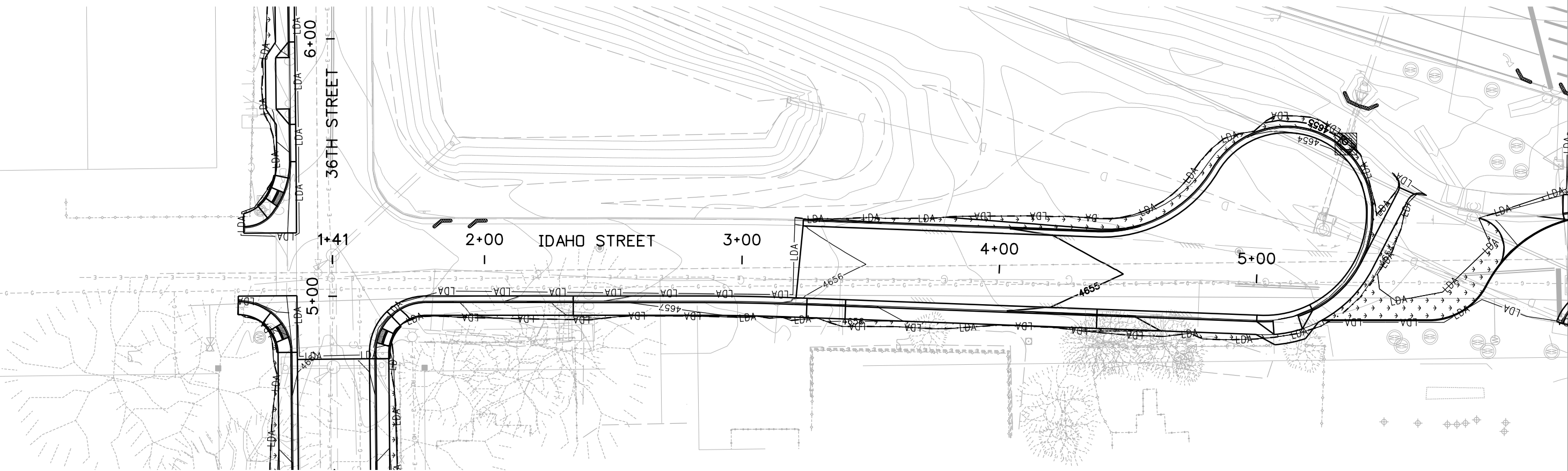
- 1. REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR LIMITS OF CLEARING, GRUBBING AND DEMOLITION.
- 2. PERIMETER CONTROL FOR THIS PROJECT IS AS FOLLOWS, INCLUDING BUT NOT LIMITED TO: EXISTING PAVEMENT AND EXISTING VEGETATION
- 3. VEHICLE TRACKING PADS SHALL BE PLACED AT THE BEGINNING OF FULL DEPTH PAVEMENT CONSTRUCTION FOR EACH PHASE AND AS DIRECTED BY THE ENGINEER.
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File Name: StVrain_SWMP_Plan02.dgn			Date:	Comments	Init.			No Revisions:					STM M415-014	
Horiz. Scale: 1:40.0021 Vert. Scale: As Noted												18404		
<div><div><div></div></div><div>1670 BROADWAY, SUITE 3400 DENVER, COLORADO 80202 Phone: 303-764-1520 FAX: 303-860-7139</div></div>									Revised:	Designer: C. SAXE	Structure Numbers			
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							Sheet Subset: SWMP	Subset Sheets: 2 of 5						



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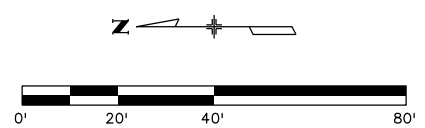


LEGEND

- VDT - LIMITS OF DISTURBED AREA
- MULCH AND SEEDING
- GRAVEL BAG
- - - - - TOE OF FILL
- - - - - TOP OF CUT

NOTES:

1. REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR LIMITS OF CLEARING, GRUBBING AND DEMOLITION.
2. PERIMETER CONTROL FOR THIS PROJECT IS AS FOLLOWS, INCLUDING BUT NOT LIMITED TO: EXISTING PAVEMENT AND EXISTING VEGETATION
3. VEHICLE TRACKING PADS SHALL BE PLACED AT THE BEGINNING OF FULL DEPTH PAVEMENT CONSTRUCTION FOR EACH PHASE AND AS DIRECTED BY THE ENGINEER.
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File Name: StVrain_SWMP_Plan03.dgn

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Date:	Comments	Init.	

US 85 Access Control
at 37th Street

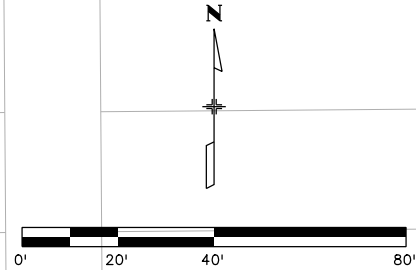
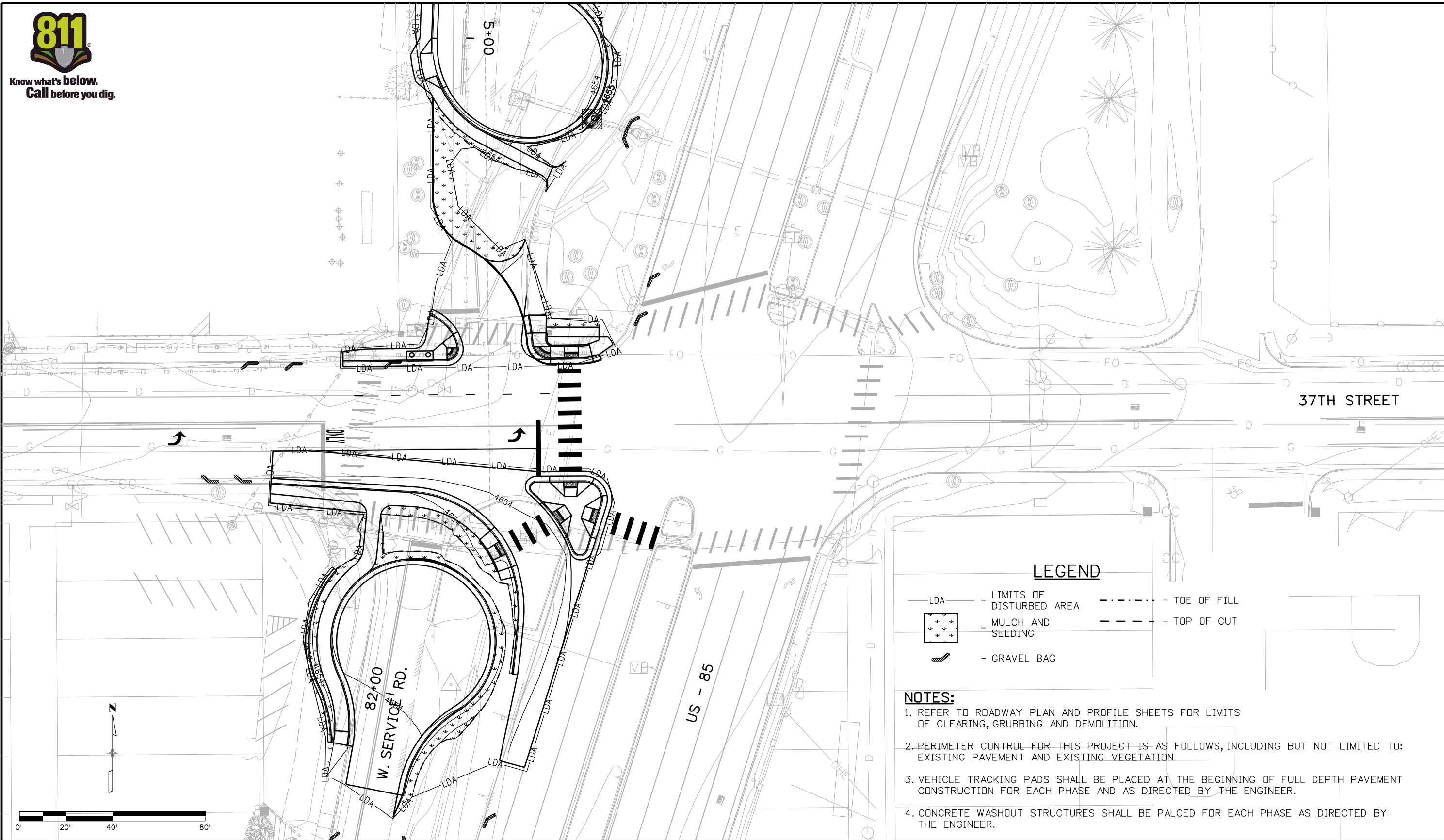
Region 04

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No Revisions:					STM M415-014
Revised:		Designer: C. SAXE	Structure Numbers		18404
Void:		Detailer: C. SAXE			
		Sheet Subset: SWMP	Subset Sheets: 3 of 5	Sheet:	33

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LEGEND

- LDA - LIMITS OF DISTURBED AREA
- MULCH AND SEEDING
- GRAVEL BAG
- TOE OF FILL
- TOP OF CUT

NOTES:

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File Name: StVrain_SWMP_Plan04.dgn
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US 85 Access Control
at 37th Street



As Constructed

No Revisions:

Revised:

Void:

37TH STREET
SWMP

Designer:	C. SAXE	Structure Numbers	
Detailer:	C. SAXE		
Sheet Subset:	SWMP	Subset Sheets:	4 of 5

Project No./Code

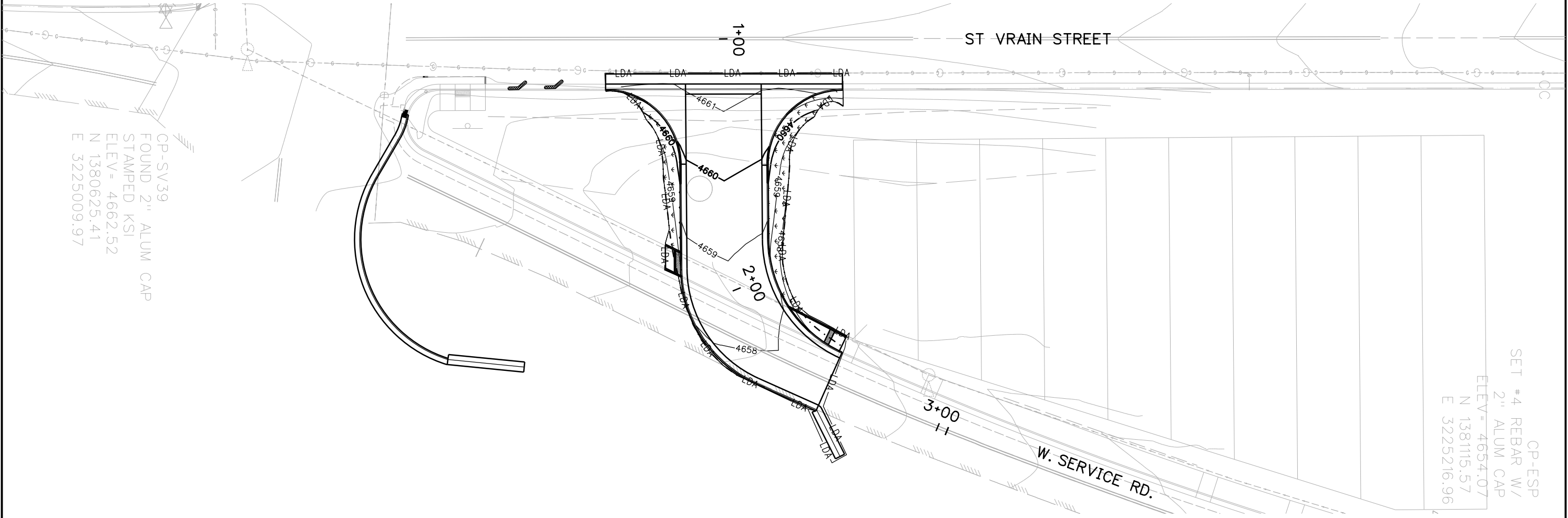
STM M415-014

18404

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CP-SV39
FOUND 2" ALUM CAP
STAMPED KSI
ELEV = 4662.52
N 1380625.41
E 3225009.97

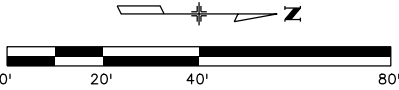
CP-ESP
SET #4 REBAR W/
2" ALUM CAP
ELEV = 4654.07
N 1381115.57
E 3225216.96

LEGEND

- LDA - LIMITS OF DISTURBED AREA
- MULCH AND SEEDING
- GRAVEL BAG
- TOE OF FILL
- TOP OF CUT

NOTES:

- 1. REFER TO ROADWAY PLAN AND PROFILE SHEETS FOR LIMITS OF CLEARING, GRUBBING AND DEMOLITION.
- 2. PERIMETER CONTROL FOR THIS PROJECT IS AS FOLLOWS, INCLUDING BUT NOT LIMITED TO: EXISTING PAVEMENT AND EXISTING VEGETATION
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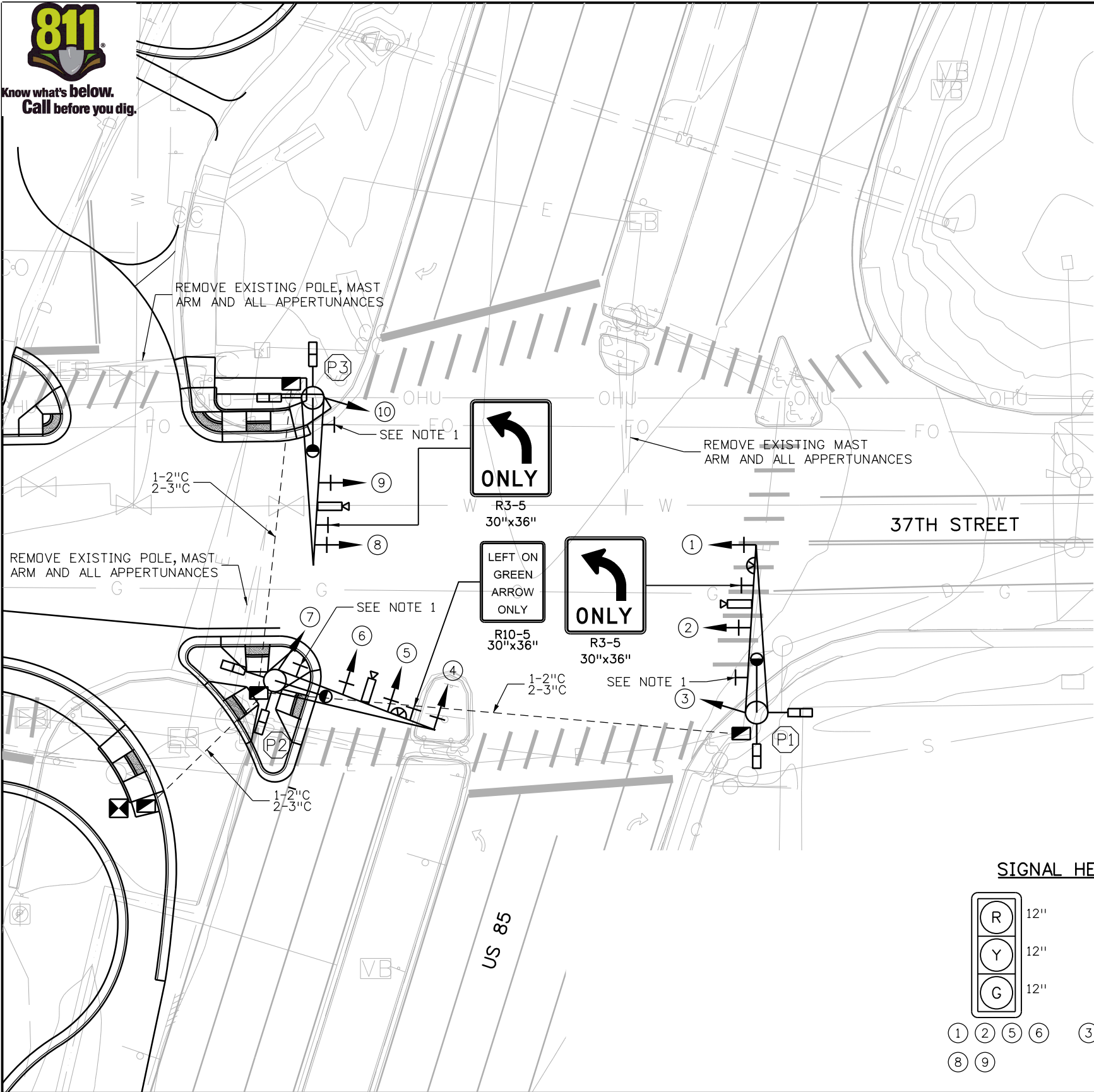
Print Date: 5/18/2016
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US 85 Access Control
at 37th Street

As Constructed		WEST ACCESS CONNECTOR SWMP PLAN			Project No./Code
No Revisions:					STM M415-014
Revised:		Designer: C. SAXE	Structure Numbers		18404
Void:		Detailer: C. SAXE			
		Sheet Subset: SWMP	Subset Sheets: 5 of 5	Sheet:	35



NOTES:

- 1. USE EXISTING POWER SOURCE TO POWER PROPOSED SIGNAL CONTROLLER.
- 2. ALL REMOVED EQUIPMENT SHALL REMAIN THE PROPERTY OF CDOT. CONTACT JIM THRUSH AT 970-350-2290 FOR RECONSTRUCTION.
- 3. LUMINAIRE SHALL BE 250 W HPS.

LEGEND

- TRAFFIC SIGNAL HEAD W/ BACKPLATE
- TRAFFIC SIGNAL HEAD W/O BACKPLATE
- PULL BOX
- SIGNAL HEAD I.D.
- SIGNAL POLE & MAST ARM
- PEDESTRIAN SIGNAL HEAD
- TRAFFIC SIGNAL CONTROLLER
- LUMINAIRE
- SIGNAL POLE I.D.
- PAN TILT ZOOM CAMERA
- DIVIDED DETECTION ZONE
- CONDUIT (AS SHOWN)
- ANTENNA
- FIRE PREEMPTION TRAFFIC DETECTOR
- EXISTING STORM LINE
- EXISTING ELECTRIC LINE
- EXISTING COMMUNICATION LINE
- EXISTING NATURAL GAS LINE
- EXISTING WATER LINE
- EXISTING TRAFFIC SIGNAL

TRAFFIC SIGNAL QUANTITIES

Item No.	Description	Unit	Quantity
202-00828	REMOVAL OF TRAFFIC SIGNAL EQUIPMENT	LS	1
503-00036	DRILLED CAISSON (36 INCH)	LF	57
613-01200	2 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	250
613-01300	3 INCH ELECTRICAL CONDUIT (PLASTIC)	LF	500
613-10000	WIRING	LS	1
614-00011	SIGN PANEL (CLASS I)	SF	22.5
614-70150	PEDESTRIAN SIGNAL FACE (16) (COUNTDOWN)	EACH	6
614-70336	TRAFFIC SIGNAL FACE (12-12-12)	EACH	10
614-72860	PEDESTRIAN PUSH BUTTON	EACH	6
614-72866	FIRE PREEMPTION UNIT AND TIMER	EACH	3
614-72895	VEHICLE DETECTION SYSTEM (SINGLE CAMERA)	EACH	3
614-81140	TRAFFIC SIGNAL-LIGHT POLE STEEL (1 40-FOOT MAST ARM)	EACH	3
614-86240	TRAFFIC SIGNAL CONTROLLER (TYPE 170)	EACH	1

SIGNAL POLE SCHEDULE

POLE NUMBER	1	2	3
MAST ARM	40'	40'	40'
NORTHING	N1381660.94	N1381668.88	N1381738.90
EASTING	E3225561.43	E3225442.16	E3225451.53
TOP OF CAISSON ELEVATION	-	-	-

SIGNAL HEAD SCHEDULE

<div>12" R</div> <div>12" Y</div> <div>12" G</div>	<div>12" R</div> <div>12" Y</div> <div>12" G</div>	<div>12" R</div> <div>12" Y</div> <div>12" G</div>
① ② ⑤ ⑥	③ ⑦ ⑩	④
⑧ ⑨		

Print Date: 5/18/2016

File Name: StVrain_TS_Plan01.dgn

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US 85 Access Control at 37th Street

City of Evans, Colorado

Region 04

CDOT

CO

As Constructed

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Void:

US 85 & 37TH STREET SIGNAL PLAN AND TABULATIONS

Designer: J. SEYER

Detailer: J. SAXON

Sheet Subset: TRAFFIC

Structure Numbers

Subset Sheets: 1 of 1

Project No./Code

STM M415-014

18404

Sheet: 37

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TABULATION OF SIGNS												
SIGN NO.	SIGN CODE	STATION	LOCATION	SIGN PANEL SIZE	BACKGROUND COLOR	202-00810	210-00810	NO. OF POSTS	POST TYPE		SIGN PANEL	REMARKS
						REMOVE GROUND SIGN	RESET GROUND SIGN		614-01502	614-01572	614-00011	
									STEEL SIGN SUPPORT (2 INCH ROUND) (POST & SOCKET)	STEEL SIGN SUPPORT (2-1/2 INCH ROUND NP-40) (POST & SLIPBASE)	CLASS I	
1	RESET	4+90 LT	36TH ST				1	1	10.5			
2	REMOVE	4+80 RT	36TH ST			1						
3	REMOVE	N/A				1						
4	W1-2L	N/A	36TH ST	30"X30"	YELLOW			1		12.0	6.25	
	W13-1P (15)			18"X18"	YELLOW						2.25	
5-9	INTENTIONALLY LEFT BLANK											
10	R1-1	1+35 LT	ST VRAIN ST	30"X30"	RED			1		11.5	6.25	
	D3 (36th St)			36"X12"	GREEN						3.00	
	D3 (St. Vrain St)			54"X12"	GREEN						4.50	
11	R7-1	1+75 RT	ST VRAIN ST	12"X18"	WHITE			1	9.5		1.50	
12	R7-1	3+00 LT	ST VRAIN ST	12"X18"	WHITE			1	9.5		1.50	
13	R7-1	4+40 RT	ST VRAIN ST	12"X18"	WHITE			1	9.5		1.50	
14	R7-1	5+30 LT	ST VRAIN ST	12"X18"	WHITE			1	9.5		1.50	
15	R1-1	5+75 RT	ST VRAIN ST	30"X30"	RED			1		11.5	6.25	
	D3 (37th St)			36"X12"	GREEN						3.00	
	D3 (St. Vrain St)			54"X12"	GREEN						4.50	
16-19	INTENTIONALLY LEFT BLANK											
20	RESET	1+75 LT	IDAHO ST				1	1	10.5			
	W14-1aL			36"X8"	YELLOW						2.00	
	W14-1aR			36"X8"	YELLOW						2.00	
21	R7-1	2+15 RT	IDAHO ST	12"X18"	WHITE			1	9.5		1.50	
22	R7-1	2+85 LT	IDAHO ST	12"X18"	WHITE			1	9.5		1.50	
23	R7-1	4+00 RT	IDAHO ST	12"X18"	WHITE			1	9.5		1.50	
24	R7-1	4+55 LT	IDAHO ST	12"X18"	WHITE			1	9.5		1.50	
25	R7-1	5+50 RT	IDAHO ST	12"X18"	WHITE			1	9.5		1.50	
26-29	INTENTIONALLY LEFT BLANK											
30	REMOVE					1						
31	RESET	N/A	US 85				1	1	11.0			
32	R7-1	N/A	W. SERVICE RD	12"X18"	WHITE			1	9.5		1.50	
33	R7-1	N/A	W. SERVICE RD	12"X18"	WHITE			1	9.5		1.50	
34	R7-1	N/A	W. SERVICE RD	12"X18"	WHITE			1	9.5		1.50	
35	REMOVE					1						
36	R1-1	83+60 LT	W. SERVICE RD	24"X24"	RED			1		14.0	4.00	
37	R3-5r		W. SERVICE RD	18"X24"	WHITE						3.00	
38	R1-5L		37TH STREET	24"X24"	WHITE						4.00	
39	INTENTIONALLY LEFT BLANK											
40	R1-1	1+30 LT	W. SERVICE RD	30"X30"	RED			1		11.5	6.25	
	D3 (W Service)			60"X12"	GREEN						5	

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18404	
Sheet:	38

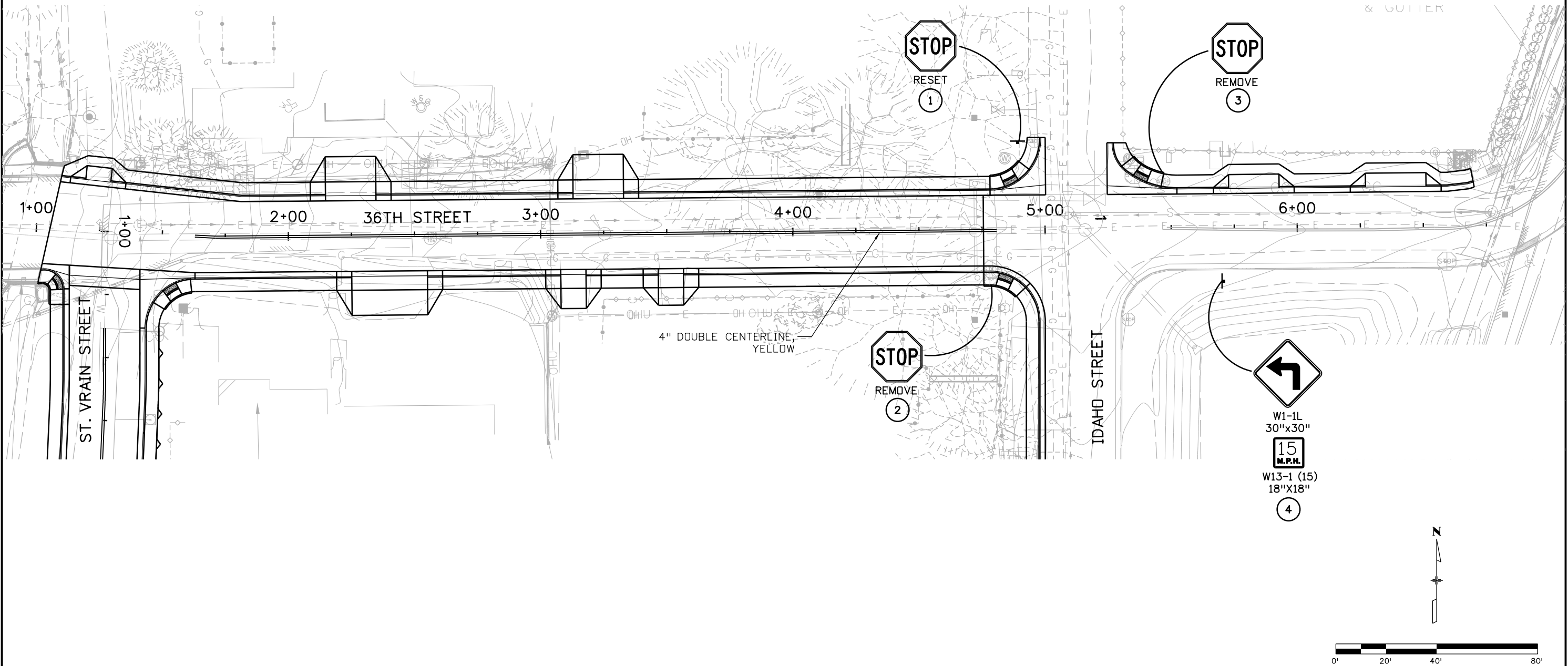
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TABULATION OF PAVEMENT MARKING									
STATION	LOCATION	PAVEMENT MARKING LINES			PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK - STOP LINE)		PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD - SYMBOL)		REMARKS
		LANE	CENTER	CHANNELIZING					
		WHITE BROKEN 4 INCH	YELLOW SOLID 4 INCH	WHITE SOLID 8 INCH	STOP LINE SOLID 24 INCH	CROSSWALKS	"ONLY"	ARROWS	
		LF	LF	LF	LF	SF	SF	SF	
01+00 TO 05+14	36th Street		640						
00+00 TO 06+00	St. Vrain Street		880						
	37th Street	80	180	190	24	180	23	31	
01+00 TO 03+00	W. Service Road		350						
PAY QUANTITY CALCULATIONS									
TOTAL LINEAR FEET		20	2,050	190	24				
TOTAL SQUARE FEET		7	683	127	48	180	23	31	
PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK-STOP LINE) (SF)					48	180			
PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL) (SF)							23	31	
EPOXY PAVEMENT MARKING (GAL.)		1	7	2					

SUMMARY OF PAVEMENT MARKING QUANTITIES			
COLOR	627-00005	627-30407	627-30411
	EPOXY PAVEMENT MARKING PAINT (GAL.)	PREFORMED THERMOPLASTIC PAVEMENT MARKING (WORD-SYMBOL) (SPECIAL) (SQ.FT.)	PREFORMED THERMOPLASTIC PAVEMENT MARKING (XWALK-STOP LINE) (SPECIAL) (SQ.FT.)
YELLOW	7.0	0.0	0.0
WHITE	3.0	53.5	228.0
TOTAL	10.0	53.5	228.0



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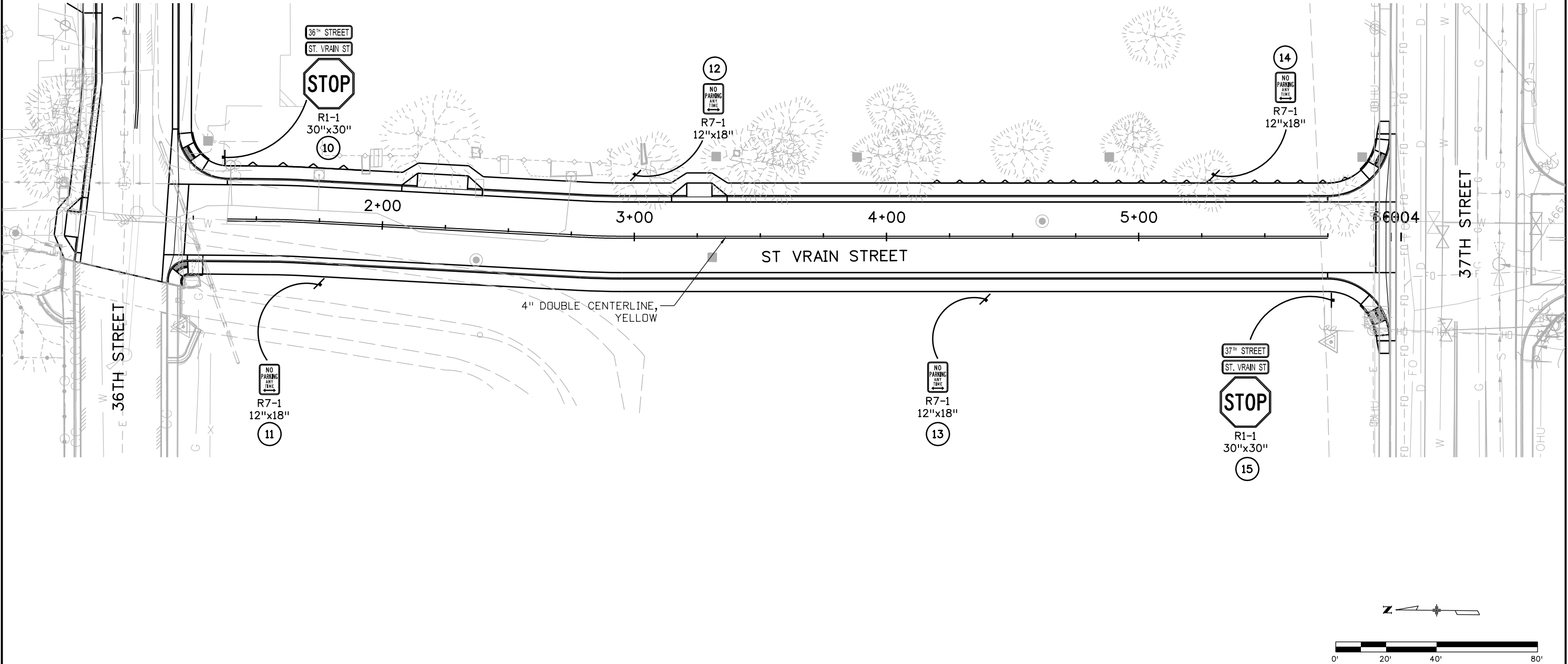
US 85 Access Control
at 37th Street



As Constructed		36TH STREET SIGNING & STRIPING PLAN		Project No./Code
No Revisions:		Designer: J. SEYER		STM M415-014
Revised:		Detailer: C. SAXE		18404
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US 85 Access Control
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City of
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Region 04

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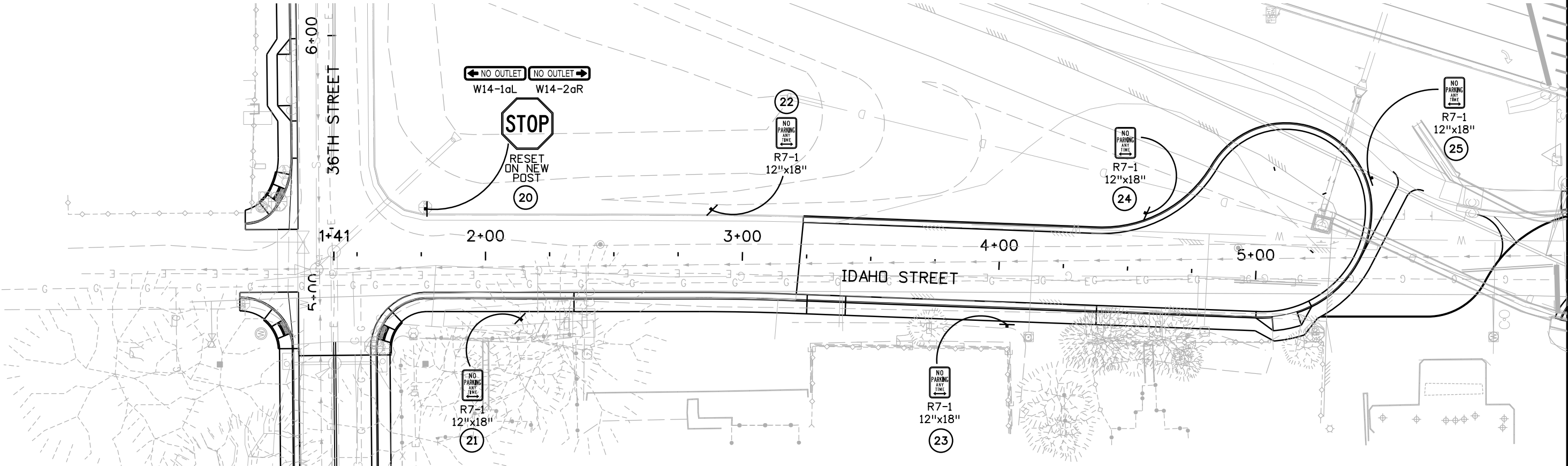
ST VRAIN STREET SIGNING & STRIPING PLAN			
Designer:	J. SEYER	Structure Numbers	
Detailer:	C. SAXE		
Sheet Subset:	TRAFFIC	Subset Sheets:	1 of 1

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STM M415-014
18404
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IDAHO STREET
SIGNING & STRIPING PLAN

Designer: J. SEYER

Detailer: C. SAXE

Sheet Subset: UTILITIES

Structure

Numbers

Subset Sheets: 1 of 1

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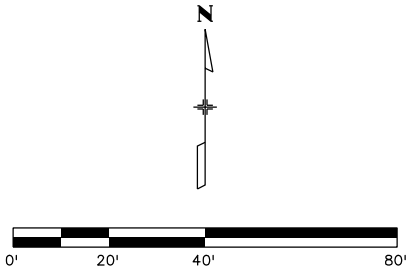
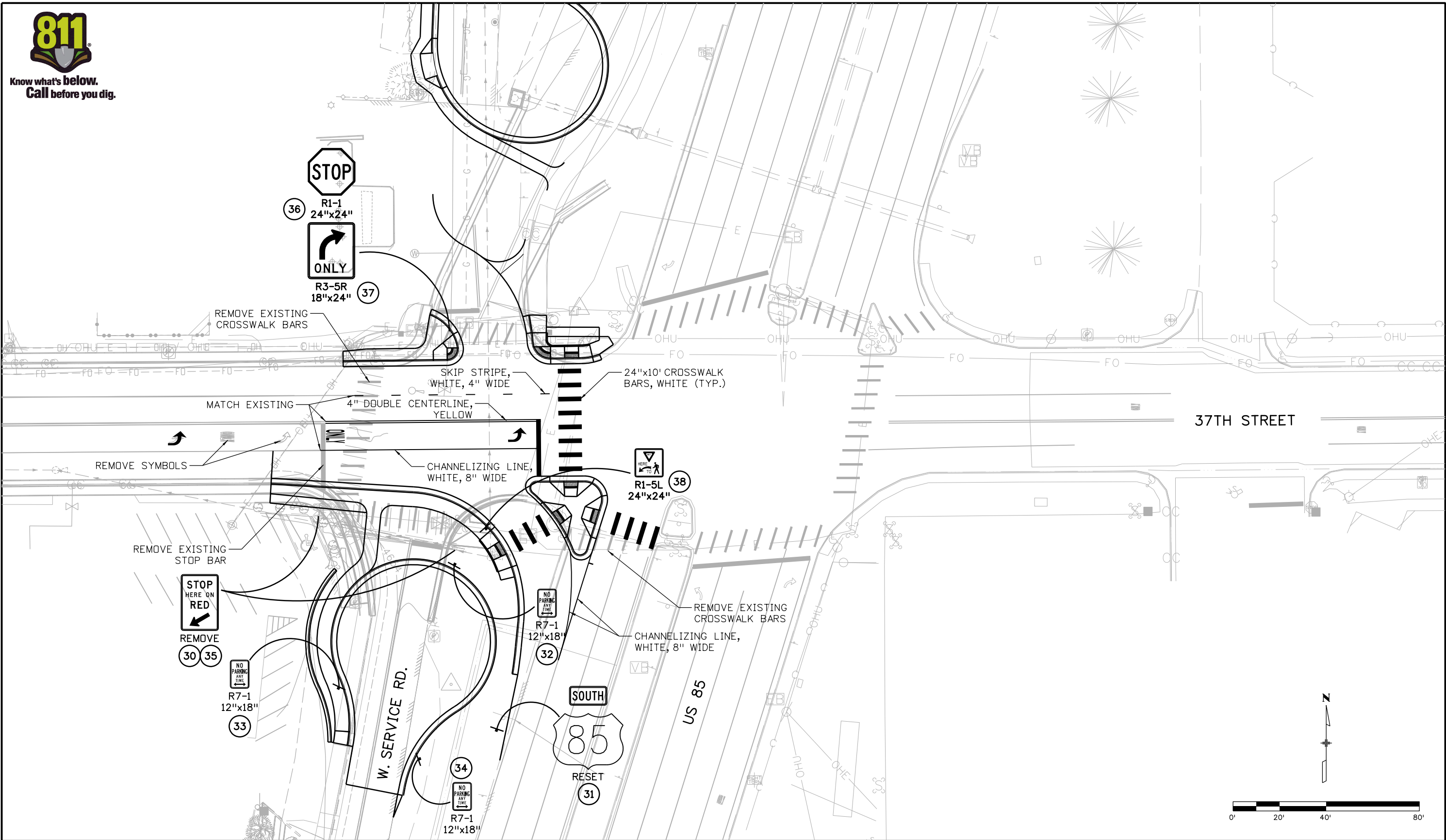
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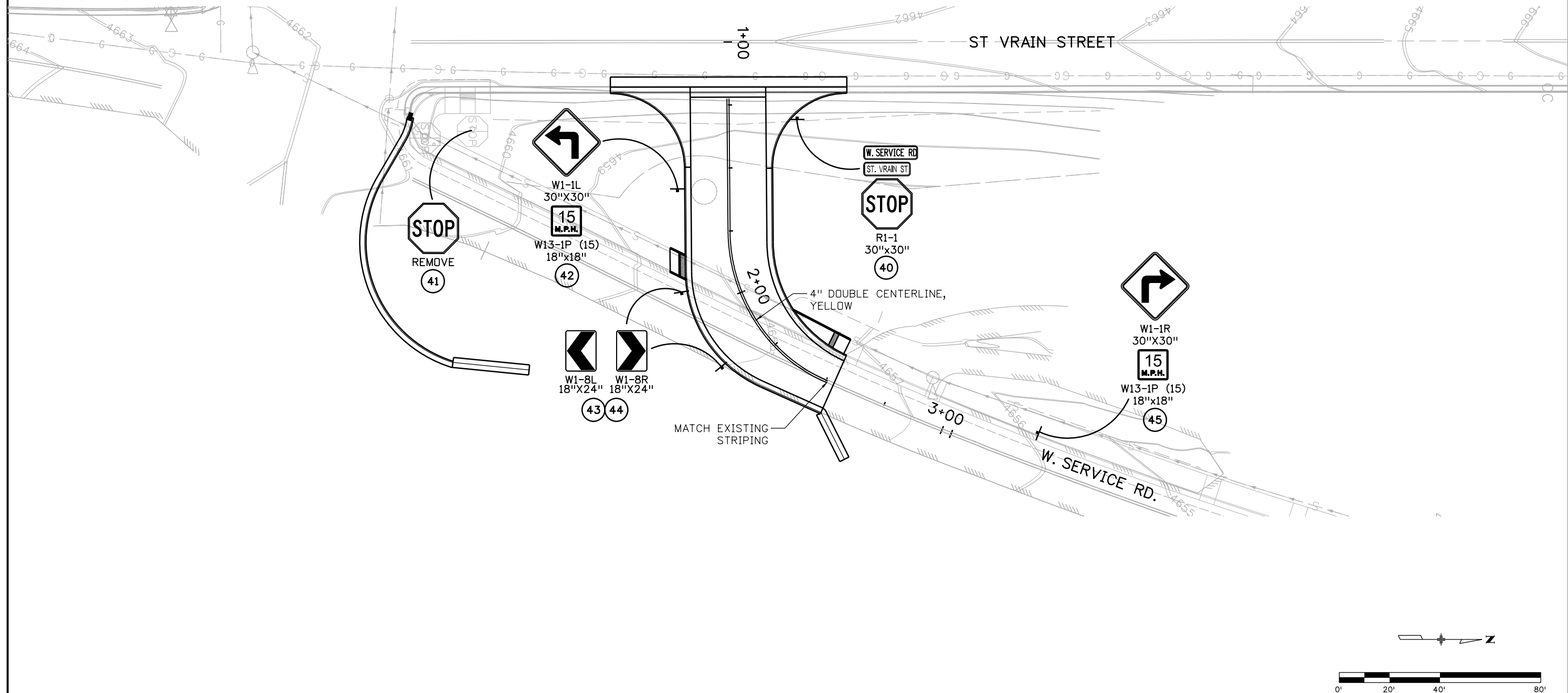


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37TH STREET SIGNING & STRIPING PLAN			
Designer:	J. SEYER	Structure Numbers	
Detailer:	C. SAXE		
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STM M415-014
18404
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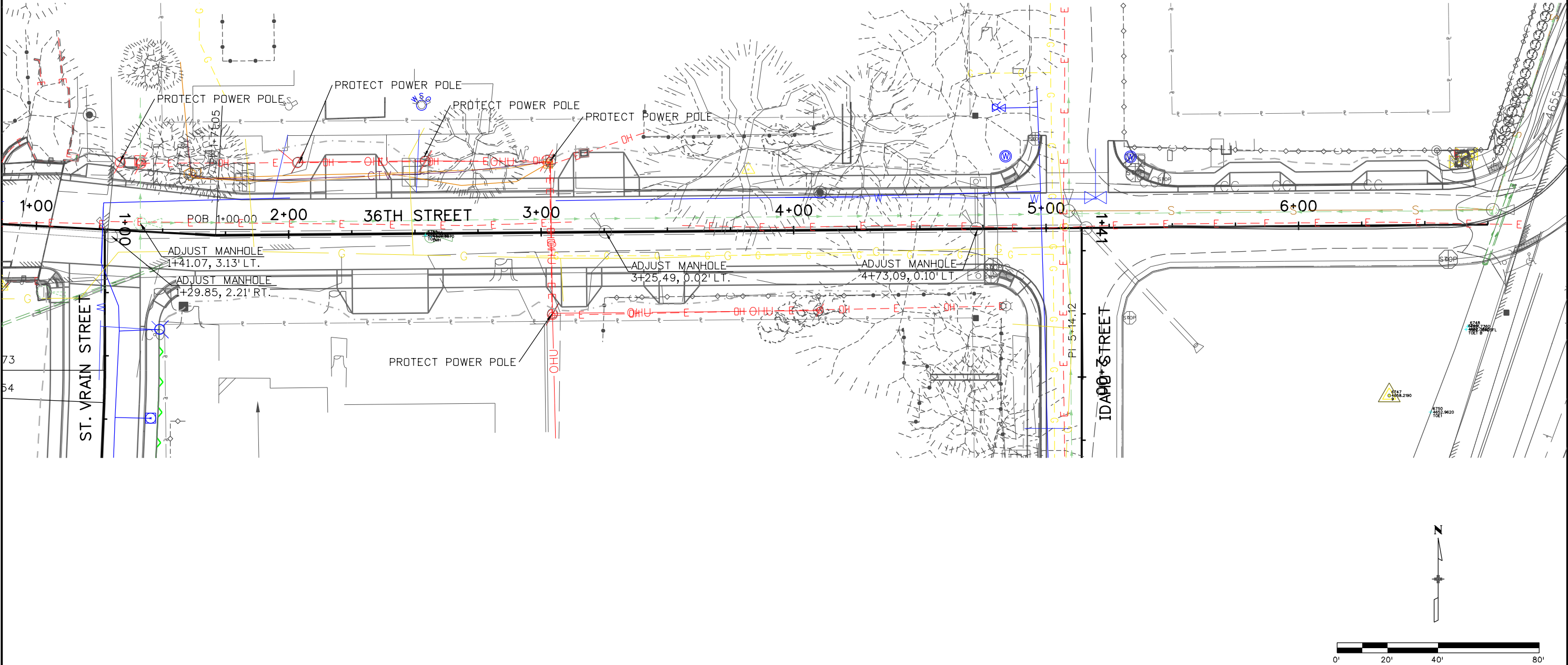


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US 85 Access Control
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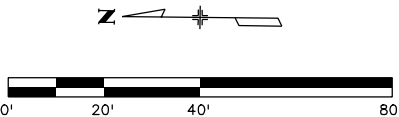
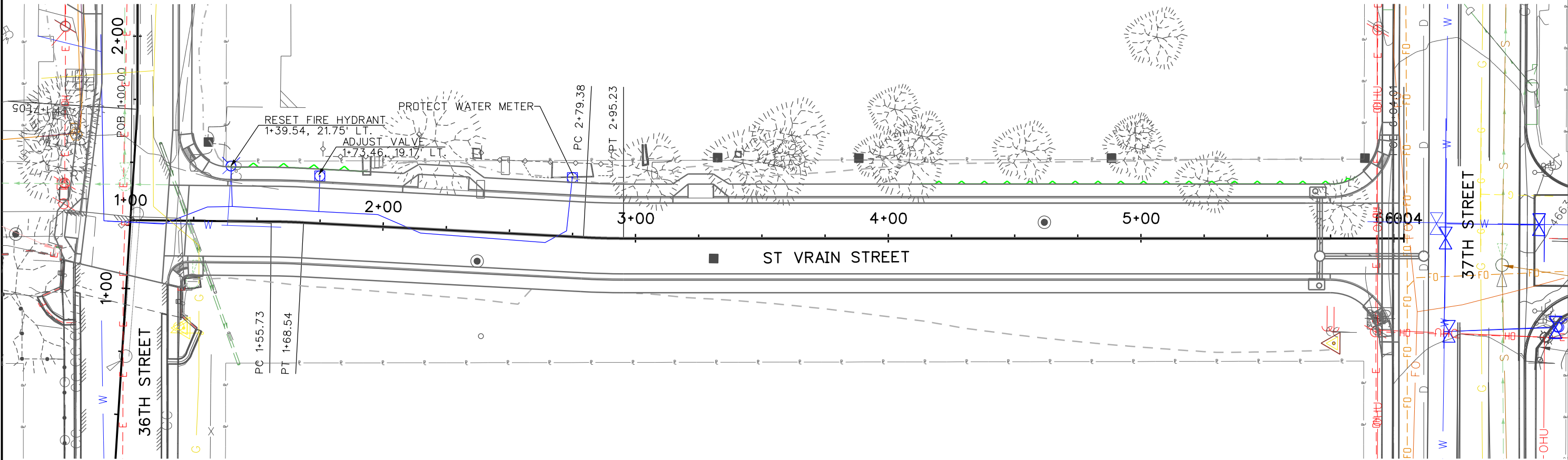


Region 04

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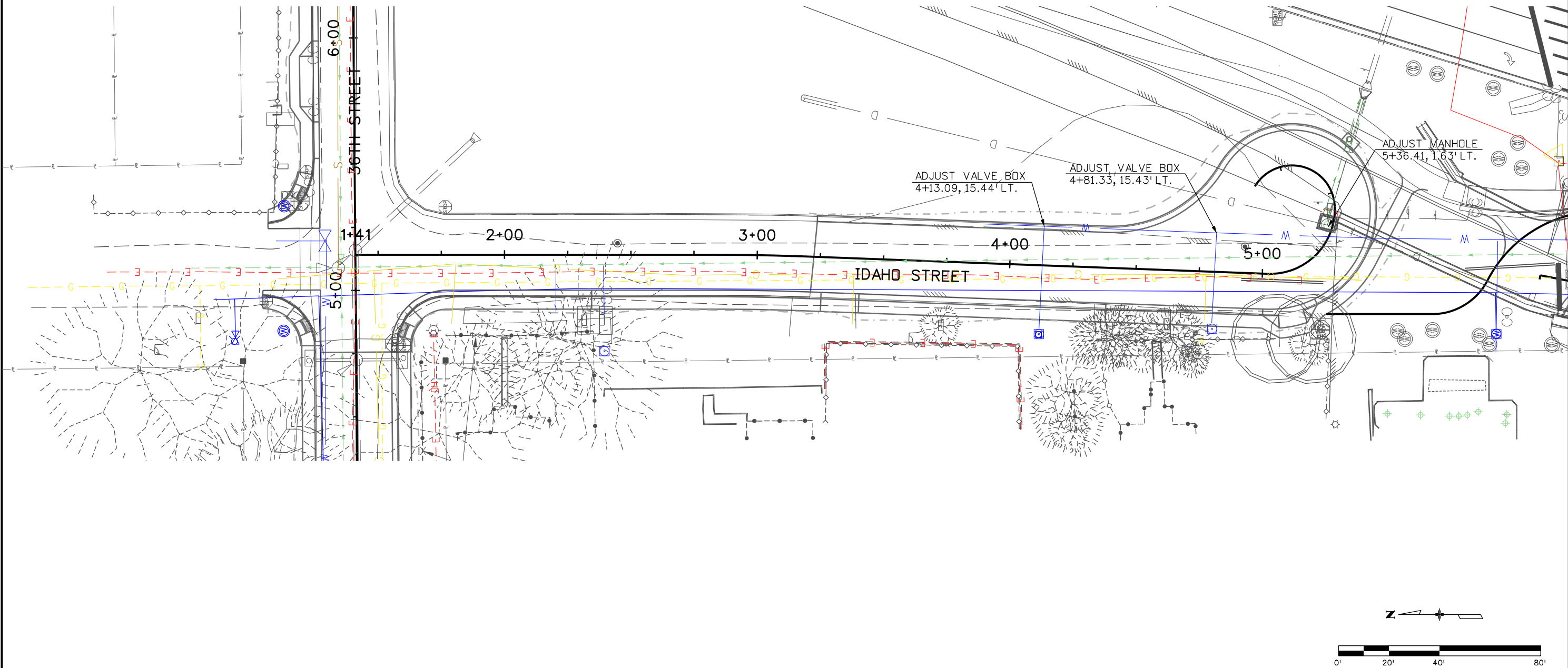
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at 37th Street



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US 85 Access Control
at 37th Street

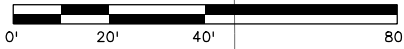
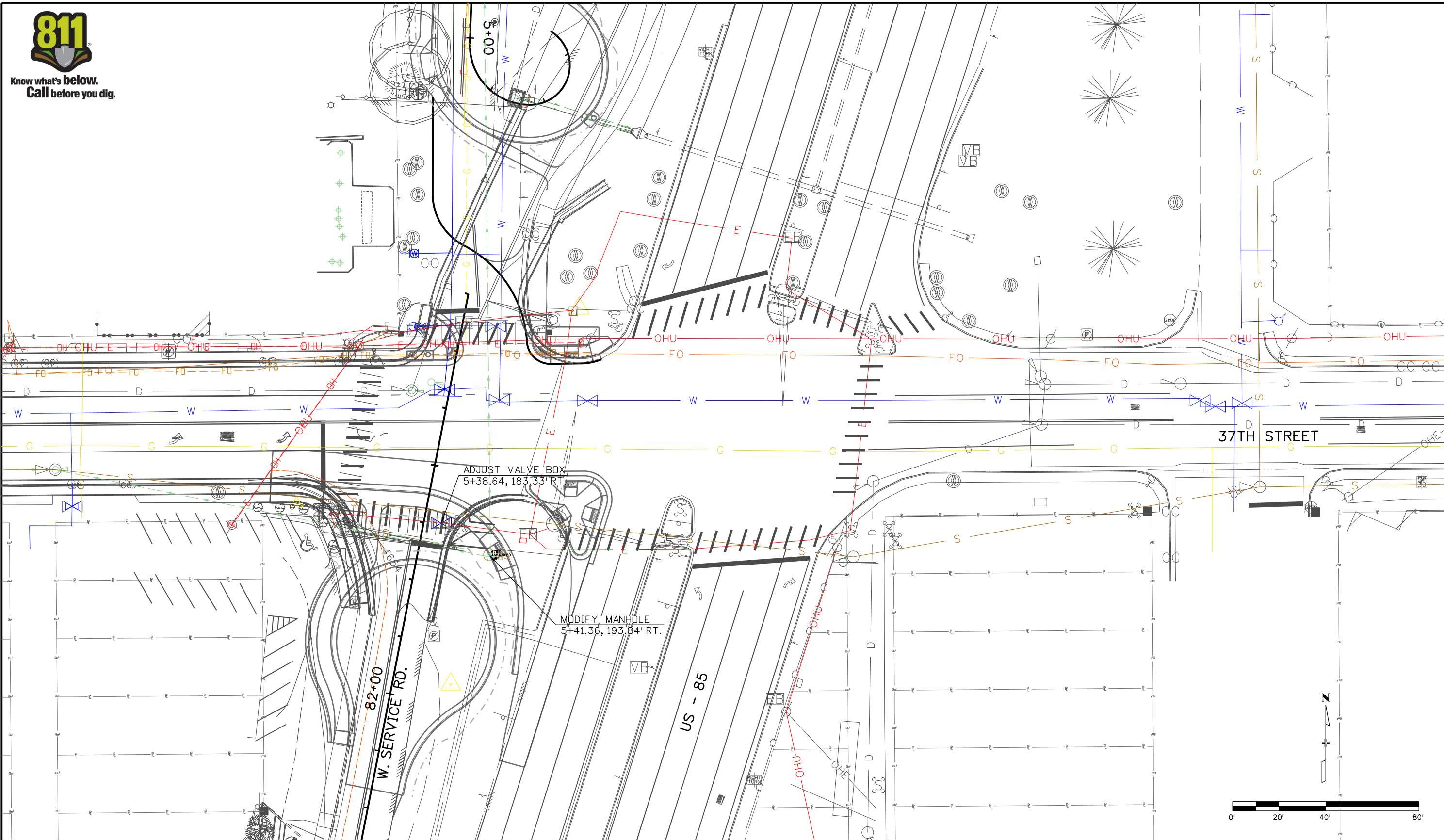
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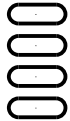
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City of
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Region 04

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WEST SERVICE CUL DE SAC
UTILITY PLAN

Designer: M. FOLWELL

Detailer: C. SAXE

Sheet Subset: UTILITIES

Structure
Numbers

Subset Sheets: 4 of 5

Project No./Code

STM M415-014

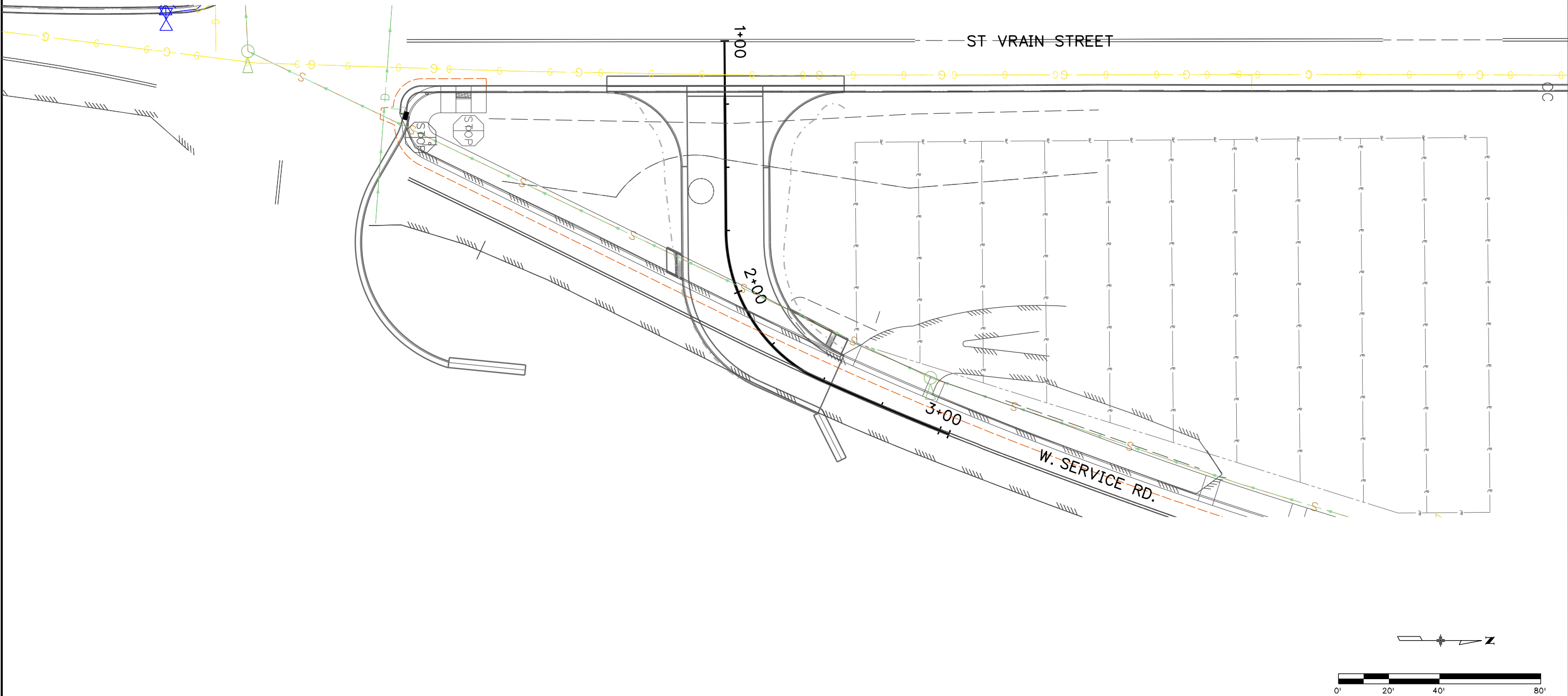
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at 37th Street



City of
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Region 04

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		Sheet Subset: UTILITIES	Subset Sheets: 5 of 5	Sheet:	49

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TABULATION OF TRAFFIC ENGINEERING ITEMS			
ITEM NO.	ITEM DESCRIPTION	UNIT	PROJECT TOTALS
630-00000	FLAGGING	HOUR	300
630-00003	UNIFORMED TRAFFIC CONTROL	HOUR	4
630-00007	TRAFFIC CONTROL INSPECTION	DAY	30
630-00012	TRAFFIC CONTROL MANAGEMENT	DAY	80
630-80341	BARRICADE (TYPE 3 M-A) (TEMPORARY)	EACH	6
630-80341	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE A)	EACH	34
630-80342	CONSTRUCTION TRAFFIC SIGN (PANEL SIZE B)	EACH	4
630-80355	PORTABLE MESSAGE SIGN PANEL	EACH	2
630-80358	ADVANCE WARNING FLASHING OR SEQUENCING ARROW PANEL (C TYPE)	EACH	2
630-80360	DRUM CHANNELIZING DEVICE	EACH	200
630-80380	TRAFFIC CONE	EACH	200

SCHEDULE OF CONSTRUCTION TRAFFIC CONTROL DEVICES						
SIGNS						
SIGN CODE	LEGEND	DIMENSION	PANEL SIZE			
			A	B	C	Special
			EA	EA	EA	SF
W20-1	ROAD/WORK/(DIST)	36 x 36	4			
W20-7a	FLAGGER (SYMBOL)	36 x 36	4			
48W21-5	SHOULDER/WORK	36 x 36	4			
48W20-4	ONE LANE/ROAD/AHEAD	36 x 36	2			
R4-7	KEEP RIGHT (SYMBOL)	24 x 30	4			
R11-2	ROAD/CLOSED	36 x 36	2			
G20-10	XYZ/CONSTRUCTION/THANKS YOU/555-555-5555	48 x 48		4		
R52-6a	BEGIN/FINES/DOUBLE/IN WORK/ZONE	24 x 30	4			
G20-5	WORK ZONE	36 x 12	2			
R2-6	FINES/DOUBLE	36 x 24	4			
R52-6b	END/FINES/DOUBLE/IN WORK/ZONE	24 x 30	4			
TOTALS			34	4	0	0

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City of
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Region 04

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TABULATION OF TRAFFIC
CONTROL ITEMS

Designer: M. FOLWELL

Detailer: C. SAXE

Sheet Subset: TABS

Structure
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Subset Sheets: 1 of 1

Project No./Code

STM M415-014

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